

LLNL Livermore Site Third Quarter 2008 Self-Monitoring Report

The following is the third quarter 2008 self-monitoring data for the treatment facilities and Lake Haussmann at the Lawrence Livermore National Laboratory (LLNL) Livermore Site. Due to over a 50% reduction in budget for the Livermore Site project in Fiscal Year 2008, the following facilities were shutdown: TFC East, VTFD-ETCS, TFD-HPD, VTFD-HPD, VTFD-HS, VTFE-ELM, VTFE-HS, TF5475-1, TF5475-2, TF5473-3, VTF5475, TF406-NW, TF518 North, VTF518-PZ, and TF518-PZ. The following facilities previously failed and were not repaired due to insufficient resources: TFC-SE, TFD-S, TFE-E, TFE-SE, TFE-HS, TFG-N, TF406, and VTF406-HS. Additionally, TFA, TFA-E, TFD, and VTF511 failed during this reporting period. Treatment facility mechanical and electronic issues will be evaluated and repaired as manpower and priorities allow. TFA West was also shutdown in January 2008 after a year-long treatability test.

The volumes of ground water and soil vapor treated and volatile organic compound (VOC) mass removed during the third quarter of 2008 are presented in Tables 1 and 2, respectively. Table 3 presents an historical summary of VOC mass and volume removed.

Attachment A presents ground water treatment facility and extraction well (ground water and soil vapor) VOC, chromium, bioassay, turbidity and chloride analyses (Tables A-1 through A-5). During the third quarter of 2008, all effluent sample analyses were within acceptable discharge limits.

Self-monitoring reports for all treatment facilities are presented in Attachment B. Monthly volumes of ground water extracted are shown in Attachment B; however, instantaneous flow rates are not shown for wells that are now only used for sampling and are not continuously pumped. The monthly volume shown for these wells is the quantity of water evacuated for sampling purposes. Monitoring data for Lake Haussmann are presented in Attachment C.

A well location map showing wells and treatment facilities, and ground water elevation contour maps showing hydraulic capture zones for hydrostratigraphic units (HSUs) 1B, 2, 3A, 3B, 4, and 5, are presented in Attachment D. There were no new monitoring wells installed during this reporting period. The contour maps for the individual HSUs are based on July data; due to the budget reduction, water levels were only collected during the month of July.

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Table 1. Volumes of ground water and soil vapor extracted and treated at the Livermore Site, July through September 2008.

Treatment Area^a	Month	Volume of ground water extracted (Kgal)^b	Volume of vapor extracted (Kft³)^b
TFA	July	2,963	-
	August	2,207	-
	September	1	-
TFB	July	1,559	-
	August	1,778	-
	September	1,833	-
TFC	July	2,262	-
	August	2,167	-
	September	2,479	-
TFD	July	4,111	0
	August	1,837	0
	September	1,904	0
TFE	July	1,694	0
	August	1,533	0
	September	1,671	0
TFG	July	397	-
	August	368	-
	September	410	-
TFH	July	0	714
	August	0	456
	September	0	0
TOTAL^c		31,174	1,170

^a Totals include ground water and soil vapor extracted from the following facilities:

TFA area: TFA, TFA-E, TFA-W

TFB area: TFB

TFC area: TFC, TFC-E, TFC-SE

TFD area: TFD, TFD-E, TFD-HPD, TFD-S, TFD-SE, TFD-SS, TFD-W, VTFD-ETCS, VTFD-HPD, VTFD-HS

TFE area: TFE-E, TFE-HS, TFE-NW, TFE-SE, TFE-SW, TFE-W, VTFE-ELM, VTFE-HS

TFG area: TFG-1, TFG-N

TFH area: TF406, TF406-NW, TF518-N, TF518-PZ, TF5475-1, TF5475-2, TF5475-3, VTF406-HS, VTF511, VTF518-PZ, VTF5475

TFF started operation in February 1993 for fuel hydrocarbon remediation. In August 1995, the regulatory agencies agreed that the vadose zone remediation was complete, and in October 1996 a No Further Action status was granted for the ground water.

^b Totals are derived from individual extraction wells shown in Attachment B

^c Rounded number

Kft³ = thousands of cubic feet

Kgal = thousands of gallons

Table 2. VOC mass removed at the Livermore Site, July through September 2008.

Treatment Area^a	VOC mass removed from ground water (kg)	VOC mass removed from soil vapor (kg)	Total VOC mass removed (kg) ^b
TFA	0.3	-	0.3
TFB	0.5	-	0.5
TFC	0.9	-	0.9
TFD	3.9	0	3.9
TFE	0.8	0	0.8
TFG	0.09	-	0.1
TFH	0	7.1	7.1
TOTAL^b	6.5	7.1	13.6

Table 3. Historical summary of volumes of water and soil vapor removed at the Livermore Site through September 2008.

Treatment Area^a	Volume of ground water extracted (Mgal)	Volume of vapor extracted (Kft³)
TFA	1,566	-
TFB	353	-
TFC	354	-
TFD	820	49,708
TFE	296	124,223
TFG	57	-
TFH	129	163,208
TOTAL^b	3,575	337,139

Table 4. Historical summary of VOC mass removed from water and soil vapor at the Livermore Site through September 2008.

Treatment Area^a	VOC mass removed from ground water (kg)	VOC mass removed from soil vapor (kg)	Total VOC mass removed (kg) ^b
TFA	194	-	194
TFB	71	-	71
TFC	87	-	87
TFD	760	84	844
TFE	199	141	340
TFG	9	-	9
TFH	29	1,128	1,157
TOTAL^b	1,349	1,353	2,702

^a Refer to Table 1 footnote for facilities in each treatment facility area.^b Rounded number.

Abbreviations for Tables 2, 3 and 4:

Kft³ = thousands of cubic feet.

Kg = Kilograms.

Mgal = millions of gallons.

VOC = Volatile organic compound.

Attachment A

**VOC, Chromium, Bioassay,
Turbidity, and Chloride Analyses**

Table A-1. VOC analyses of influent and effluent samples by treatment facility.

Sample Station	Date Sampled	Analytic Method	CCl ₄ <-	CHCl ₃ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TFA^a													
TFA-I001	01-JUL-08	E601	<0.5	1.2	0.51	<0.5	1.2	<1	<0.5	5.9	<0.5	0.71	<0.5
TFA-I001	04-AUG-08	E601	<0.5	1.5	0.68	<0.5	1.5	<1	<0.5	8	<0.5	0.92	<0.5
TFA-E001	01-JUL-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFA-E001	04-AUG-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFA-E^b													
W-254	08-JUL-08	E601	<0.5	<0.5	0.61	<0.5	0.97	<1	<0.5	65	<0.5	1.7	<0.5
STU06-I	05-AUG-08	E601	<0.5	<0.5	0.56	<0.5	1	<1	<0.5	62	<0.5	2	<0.5
STU06-E	08-JUL-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
STU06-E	05-AUG-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFA-W^{cd}													
W-404	16-JUL-08	E601	<0.5	<0.5	1.7	<0.5	2.4	<1	<0.5	9.7	<0.5	<0.5	<0.5
W-404	11-AUG-08	E601	<0.5	<0.5	1.8	<0.5	2.8	<1	<0.5	9.3	<0.5	<0.5	<0.5
TFA-W-E	16-JUL-08	E624	<1	<1	1.7	<1	2.4	<1	<1	9.5	<1	<0.5	<1
TFB													
TFB-I002	01-JUL-08	E601	<0.5	1.7	<0.5	<0.5	1.6	<1	3.1	1.1	<0.5	6.5	<0.5
TFB-I002	04-AUG-08	E601	<0.5	1.6	<0.5	<0.5	1.4	<1	2.5	0.91	<0.5	5	<0.5
TFB-I002	03-SEP-08	E601	<0.5	1.7	<0.5	<0.5	1.5	<1	2.6	1	<0.5	5.9	<0.5
TFB-E002	01-JUL-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFB-E002	04-AUG-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFB-E002	03-SEP-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFC													
TFC-I003	02-JUL-08	E601	<0.5	1.4	<0.5	<0.5	1.1	<1	11	6	<0.5	15	<0.5
TFC-I003	04-AUG-08	E601	<0.5	1.3	<0.5	<0.5	1.1	<1	12	6.1	<0.5	15	<0.5
TFC-I003	03-SEP-08	E601	<0.5	1.4	<0.5	<0.5	1.2	<1	13	6.1	<0.5	17	<0.5
TFC-E003	02-JUL-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFC-E003	04-AUG-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFC-E003	03-SEP-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5

Table A-1. VOC analyses of influent and effluent samples by treatment facility.

Sample Station	Date Sampled	Analytic Method	CCl ₄ <-	CHCl ₃ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TFC-E^e	---	---	--	--	--	--	--	--	--	--	--	--	--
TFC-SE^f	---	---	--	--	--	--	--	--	--	--	--	--	--
TFD^g													
TFD-I004	07-JUL-08	E601	1.9	2.3	<0.5	<0.5	0.7	<1	<0.5	0.93	<0.5	44	26
TFD-E004	07-JUL-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFD-E													
PTU8-I	07-JUL-08	E601	5.8	1.8	0.55	1.4	9.9	<1	0.71	8.1	<0.5	120	1.6
PTU8-I	05-AUG-08	E601	6.2	1.7	0.53	1.4	11	<1	0.8	8.3	<0.5	110	1.7
PTU8-I	08-SEP-08	E601	5.3	1.7	<0.5	1.2	8.6	<1	0.68	8	<0.5	110	2
PTU8-E	07-JUL-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU8-E	05-AUG-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU8-E	08-SEP-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFD-HPD^h	---	---	--	--	--	--	--	--	--	--	--	--	--
TFD-S													
PTU2-I	22-JUL-08	E601	3.6	1.5	<0.5	<0.5	9.2	<1	2	6.3	<0.5	170	0.64
PTU2-I	22-AUG-08	E601	4.2	1.6	<0.5	<0.5	11	<1	2	6.4	<0.5	200	0.82
PTU2-I	24-SEP-08	E601	5.6	2	0.54	<0.5	16	<1	2.7	7.6	<0.5	240	1.1
PTU2-E	22-JUL-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU2-E	22-AUG-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU2-E	24-SEP-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFD-SE													
PTU11-I	02-JUL-08	E601	1.2	6	1.4	5	30	<1	1.3	100	<0.5	220	<0.5
PTU11-I	05-AUG-08	E601	0.72	1.4	1.7	5.7	30	<1	<0.5	100	<0.5	150	<0.5
PTU11-I	08-SEP-08	E601	0.91	1.5	1.9	6.4	40	<1	<0.5	99	<0.5	230	<0.5
PTU11-E	02-JUL-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU11-E	05-AUG-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU11-E	08-SEP-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5

Table A-1. VOC analyses of influent and effluent samples by treatment facility.

Sample Station	Date Sampled	Analytic Method	CCl ₄ <-	CHCl ₃ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TFD-SS													
PTU12-I	16-JUL-08	E601	2.6	3.3	<0.5	1.4	8.3	<1	0.98	22	<0.5	100	2.9
PTU12-I	08-AUG-08	E601	2.7	3.2	<0.5	1.5	9.9	<1	1.1	22	<0.5	120	3.8
PTU12-I	10-SEP-08	E601	2.8	3	<0.5	1.4	9.3	<1	1	22	<0.5	110	5.8
PTU12-E	16-JUL-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU12-E	08-AUG-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU12-E	10-SEP-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFD-W													
PTU6-I	15-JUL-08	E601	0.55	4.4	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	6.9	89
PTU6-I	08-AUG-08	E601	0.6	3.7	<0.5	<0.5	<0.5	<1	0.58	<0.5	<0.5	7.8	98
PTU6-I	24-SEP-08	E601	0.67	3.7	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	9	100
PTU6-E	15-JUL-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU6-E	08-AUG-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU6-E	24-SEP-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFE-E ⁱ	---	---	--	--	--	--	--	--	--	--	--	--	--
TFE-HS ^j	---	---	--	--	--	--	--	--	--	--	--	--	--
TFE-NW													
PTU9-I	15-JUL-08	E601	<0.5	1.3	<0.5	<0.5	<0.5	<1	0.99	<0.5	<0.5	11	<0.5
PTU9-I	08-AUG-08	E601	0.54	1.2	<0.5	<0.5	<0.5	<1	0.9	<0.5	<0.5	12	<0.5
PTU9-I	10-SEP-08	E601	0.56	1.2	<0.5	<0.5	<0.5	<1	0.91	<0.5	<0.5	12	<0.5
PTU9-E	15-JUL-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU9-E	08-AUG-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU9-E	10-SEP-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFE-SE ^k	---	---	--	--	--	--	--	--	--	--	--	--	--
TFE-SW													
MTU03-I	14-JUL-08	E601	3.3	2.5	<0.5	<0.5	3.7	3.7	1.3	3.6	<0.5	95	<0.5
MTU03-I	07-AUG-08	E601	3.1	2.5	<0.5	0.51	4	3.9	1.5	3.8	<0.5	100	<0.5
MTU03-I	10-SEP-08	E601	7.8	4.9	<0.5	1.3	6.5	5.8	0.73	7.3	<0.5	190	<0.5
MTU03-E	14-JUL-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU03-E	07-AUG-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5

Table A-1. VOC analyses of influent and effluent samples by treatment facility.

Sample Station	Date Sampled	Analytic Method	CCl ₄ <-	CHCl ₃ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TFE-SW (cont.)													
MTU03-E	10-SEP-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFE-W													
MTU05-I	16-JUL-08	E601	<0.5	1.1	<0.5	<0.5	2.5	1.4	17	6.4	<0.5	35	0.61
MTU05-I	07-AUG-08	E601	<0.5	1.1	<0.5	<0.5	2.8	1.5	19	6.7	<0.5	35	0.64
MTU05-I	10-SEP-08	E601	<0.5	1.1	<0.5	<0.5	2.8	1.7	18	6	<0.5	33	0.63
MTU05-E	16-JUL-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU05-E	07-AUG-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU05-E	10-SEP-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFG-1													
W-1111	15-JUL-08	E601	3	10	<0.5	<0.5	1.1	<1	<0.5	1.4	<0.5	4.3	<0.5
GTU01-I	08-AUG-08	E601	3	10	<0.5	<0.5	1.3	<1	0.53	1.3	<0.5	4	<0.5
GTU01-I	10-SEP-08	E601	3	11	<0.5	<0.5	1.2	<1	0.5	1.4	<0.5	4.1	<0.5
GTU01-E	15-JUL-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
GTU01-E	08-AUG-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
GTU01-E	10-SEP-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFG-N^l	---	---	--	--	--	--	--	--	--	--	--	--	--
TF406^m	---	---	--	--	--	--	--	--	--	--	--	--	--
TF406-NWⁿ	---	---	--	--	--	--	--	--	--	--	--	--	--
TF518-N^o	---	---	--	--	--	--	--	--	--	--	--	--	--
TF5475-1^p	---	---	--	--	--	--	--	--	--	--	--	--	--
TF5475-2^q	---	---	--	--	--	--	--	--	--	--	--	--	--
TF5475-3^r	---	---	--	--	--	--	--	--	--	--	--	--	--

Notes on following page.

Table A-1. VOC analyses of influent and effluent samples by treatment facility.

^a TFA did not operate during part of August and for the entire month of September due to multiple electronic control issues.

^b TFA-E did not operate in September due to possible electronic issues. (An evaluation is pending).

^c TFA-W was shut down in January after a year-long treatability test.

^d W-404 is operational only during routine sample collection.

^e TFC-E did not operate during reporting period due to the budget reduction.

^f TFC-SE did not operate during reporting period due to discharge pump issues which will be investigated and repaired as manpower and priorities allow.

^g TFD was shut down during August and September for required maintenance. (A pre-start review will be conducted prior to restarting facility).

^h TFD-HPD did not operate during reporting period due to the budget reduction.

ⁱ TFE-E did not operate during reporting period due to a pending electronics evaluation to identify problem areas.

^j TFE-HS did not operate during reporting period due to insufficient resources to repair pump.

^k TFE-SE did not operate during reporting period due to insufficient resources to replace pump. (The facility is the first priority for pump replacement).

^l TFG-N did not operate during reporting period due to a pending electronics evaluation to identify needed repairs.

^m TF406 did not operate during reporting period due to insufficient resources to replace pump. (The facility is the second priority for pump replacement).

ⁿ TF406-NW did not operate during reporting period due to pump failure and insufficient resources to repair. (The facility is the third priority for pump replacement).

^o TF518-N did not operate during reporting period due to the budget reduction.

^p TF5475-1 did not operate during reporting period due to the budget reduction.

^q TF5475-2 did not operate during reporting period due to the budget reduction.

^r TF5475-3 did not operate during reporting period due to the budget reduction.

Notes:

CCl₄ = Carbon tetrachloride

CHCl₃ = Chloroform

1,1-DCA = 1,1-Dichloroethane

1,2-DCA = 1,2-Dichloroethane

1,1-DCE = 1,1-Dichloroethylene

1,2-DCE = 1,2-Dichloroethylene

Freon 113 = Trichlorotrifluoroethane

PCE = Tetrachloroethylene

1,1,1-TCA = 1,1,1-Trichloroethane

TCE = Trichloroethene

Freon 11 = Trichlorofluoromethane

VOC = volatile organic compound

NA = not analyzed

Numbers in **BOLD** print indicate positive values above the detection limit.

Table A-2. VOC analyses of samples from treatment facility extraction wells.

Extraction Well	Date Sampled	Analytic Method	CCl ₄ <-	CHCl ₃ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TFA													
W-109 ^a	24-APR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	0.51	2	<0.5	<0.5	<0.5
W-262 ^a	29-JAN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	0.56	<0.5	<0.5	<0.5
W-408 ^a	24-APR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	0.78	<0.5	<0.5	<0.5
W-415 ^a	24-APR-08	E601	<0.5	1.2	0.84	<0.5	1.8	<1	<0.5	14	<0.5	1.2	<0.5
W-457 ^a	24-APR-08	E601	<0.5	<0.5	0.84	<0.5	1.1	<1	<0.5	8	<0.5	<0.5	<0.5
W-518 ^a	24-APR-08	E601	<0.5	<0.5	7.3	<0.5	4	<1	<0.5	6.3	<0.5	0.67	<0.5
W-520 ^a	14-JAN-04	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	1.2	<0.5	<0.5	<0.5
W-522 ^a	24-APR-08	E601	<0.5	<0.5	2.3	<0.5	1.5	<1	<0.5	3.5	<0.5	<0.5	<0.5
W-601 ^a	18-OCT-07	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	1.3	<0.5	<0.5	<0.5
W-602 ^a	14-JAN-04	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	1.4	<0.5	<0.5	<0.5
W-603 ^a	15-JAN-02	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	0.64	<0.5	<0.5	<0.5
W-605 ^a	24-APR-08	E601	<0.5	0.83	0.92	<0.5	1.4	<1	<0.5	22	<0.5	1.1	<0.5
W-609 ^a	14-JAN-04	E601	<0.5	<0.5	0.92	<0.5	<0.5	<1	<0.5	0.65	<0.5	<0.5	<0.5
W-614 ^a	24-APR-08	E601	<0.5	0.84	<0.5	<0.5	<0.5	<1	<0.5	8.2	<0.5	<0.5	<0.5
W-712 ^a	24-APR-08	E601	3.2	3	1.2	<0.5	3.7	<1	<0.5	1.6	<0.5	3.6	<0.5
W-714 ^a	06-MAY-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	8.4	<0.5	<0.5	<0.5
W-903 ^a	29-JAN-08	E601	<0.5	<0.5	1.8	<0.5	1.4	<1	<0.5	7.5	<0.5	0.52	<0.5
W-904 ^a	24-APR-08	E601	<0.5	<0.5	0.97	<0.5	1.5	<1	<0.5	9.1	<0.5	0.53	<0.5
W-1001 ^a	24-APR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
W-1004 ^a	24-APR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	4.2	<0.5	<0.5	<0.5
W-1009 ^a	24-APR-08	E601	1.4	5.9	0.94	<0.5	4	<1	0.71	13	<0.5	2.3	<0.5
TFA-E													
W-254	08-JUL-08	E601	<0.5	<0.5	0.61	<0.5	0.97	<1	<0.5	65	<0.5	1.7	<0.5
TFA-W													
W-404	11-AUG-08	E601	<0.5	<0.5	1.8	<0.5	2.8	<1	<0.5	9.3	<0.5	<0.5	<0.5
TFB													
W-357	01-JUL-08	E601	1.6	2.8	<0.5	<0.5	1.7	<1	6.7	1.5	<0.5	42	<0.5
W-610	01-JUL-08	E601	<0.5	<0.5	<0.5	<0.5	2.1	<1	3	1	<0.5	2.7	<0.5
W-620	01-JUL-08	E601	<0.5	1.6	<0.5	<0.5	2.4	<1	4	2.1	<0.5	7.7	<0.5
W-621	01-JUL-08	E601	<0.5	0.6	<0.5	<0.5	0.58	<1	1.5	0.5	<0.5	4.9	<0.5
W-655	01-JUL-08	E601	<0.5	0.68	<0.5	<0.5	<0.5	<1	3.5	<0.5	<0.5	2.7	<0.5
W-704	01-JUL-08	E601	0.7	3	<0.5	<0.5	2	<1	5.9	3.7	<0.5	26	<0.5
W-1423	01-JUL-08	E601	0.75	4.6	<0.5	<0.5	3.5	<1	4.7	2.1	<0.5	10	<0.5

Table A-2. VOC analyses of samples from treatment facility extraction wells.

Extraction Well	Date Sampled	Analytic Method	CCl ₄ <-	CHCl ₃ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TFC													
W-701	02-JUL-08	E601	<0.5	2.6	<0.5	<0.5	2.4	<1	30	0.5	<0.5	10	<0.5
W-1015	02-JUL-08	E601	<0.5	0.73	<0.5	<0.5	1	<1	1.9	1.2	<0.5	4.8	<0.5
W-1102	02-JUL-08	E601	<0.5	<0.5	<0.5	<0.5	0.63	<1	7.6	<0.5	<0.5	2.6	<0.5
W-1103	02-JUL-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	1.8	<0.5
W-1104	02-JUL-08	E601	<0.5	0.91	<0.5	<0.5	0.58	<1	4.1	12	<0.5	23	<0.5
W-1116	02-JUL-08	E601	<0.5	1.6	<0.5	<0.5	0.55	<1	5.9	2.8	<0.5	3.9	<0.5
TFC-E^b													
W-368 ^a	08-JAN-08	E601	<0.5	11	<0.5	<0.5	0.82	<1	18	2.3	<0.5	16	3.7
W-413 ^a	08-JAN-08	E601	<0.5	15	<0.5	<0.5	1.2	<1	11	<0.5	<0.5	8.1	3.7
TFC-SE^b													
W-1213 ^a	08-APR-08	E601	<0.5	4.4	<0.5	<0.5	2.7	<1	6.4	<0.5	<0.5	15	<0.5
W-2201 ^a	08-APR-08	E601	<0.5	9.5	<0.5	<0.5	2.4	<1	15	0.69	<0.5	19	1.2
TFD													
W-351 ^a	03-APR-08	E601	5.3	1.1	<0.5	0.99	3.9	<1	1.2	5.4	<0.5	99	1.3
W-653	07-JUL-08	E601	40	12	<0.5	<0.5	1.5	<1	5.3	1.5	<0.5	1400	<0.5
W-906 ^a	03-APR-08	E601	0.81	1.6	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	3.4	1.9
W-907-2	07-JUL-08	E601	0.99	3.2	<0.5	<0.5	1.3	<1	<0.5	1.7	<0.5	29	<0.5
W-1206	07-JUL-08	E601	0.87	1.6	<0.5	<0.5	0.66	<1	<0.5	0.52	<0.5	19	<0.5
W-1208	07-JUL-08	E601	3.1	2.2	<0.5	<0.5	0.6	<1	0.63	0.93	<0.5	64	53
W-2011 ^a	04-APR-07	E601	3.1	2.2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	77	<0.5
W-2101 ^a	04-APR-07	E601	17	5.2	<0.5	<0.5	0.68	<1	2.7	0.83	<0.5	450	<0.5
W-2102 ^a	04-APR-07	E601	28	9.7	<0.5	<0.5	0.74	<1	3.6	0.77	<0.5	840	1.8
TFD-E													
W-1253 ^{ac}	11-FEB-08	E601	6	6.2	<5	<5	16	<10	17	12	<5	2300	<5
W-1255 ^a	11-FEB-08	E601	4.4	2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	260	<0.5
W-1301	07-JUL-08	E601	4.6	2.8	3.1	9.8	69	1.1	0.57	44	<0.5	440	<0.5
W-1303	07-JUL-08	E601	3.1	2.9	0.68	2.6	6.4	<1	<0.5	6.4	<0.5	150	22
W-1306	07-JUL-08	E601	6.1	2.2	<0.5	<0.5	0.56	<1	0.62	2.2	<0.5	130	<0.5
W-1307	07-JUL-08	E601	1.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	18	<0.5
W-1404	07-JUL-08	E601	<0.5	1.5	1.1	11	7.7	1.3	<0.5	67	<0.5	100	<0.5
W-1550	07-JUL-08	E601	15	4	<0.5	<0.5	2.7	<1	1.4	10	<0.5	180	<0.5
W-2006	07-JUL-08	E601	1.6	3.1	4.2	14	120	2.2	<0.5	100	<0.5	940	<0.5
W-2203	07-JUL-08	E601	18	2.8	<0.5	<0.5	3.9	<1	3.5	9.2	<0.5	160	<0.5

Table A-2. VOC analyses of samples from treatment facility extraction wells.

Extraction Well	Date Sampled	Analytic Method	CCl ₄ <-	CHCl ₃ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TFD-HPD^b													
W-1254 ^a	04-OCT-07	E601	0.88	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	14	<0.5
W-1551 ^a	04-OCT-07	E601	11	4.4	<0.5	<0.5	1.6	<1	3	3.1	<0.5	210	<0.5
W-1552 ^a	20-DEC-07	E601	<0.5	0.96	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	22	<0.5
W-1650 ^a	20-DEC-07	E601	7.1	1.8	<0.5	<0.5	<0.5	<1	2.6	<0.5	<0.5	260	<0.5
W-1651 ^a	20-DEC-07	E601	1.3	1.1	<0.5	<0.5	<0.5	<1	0.61	<0.5	<0.5	64	<0.5
W-1652 ^a	18-DEC-07	E601	3	2	<0.5	<0.5	<0.5	3.7	1	0.54	<0.5	420	<0.5
W-1653 ^a	18-DEC-07	E601	1.4	0.9	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	74	<0.5
W-1654 ^a	18-DEC-07	E601	<0.5	0.55	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	25	<0.5
W-1655 ^a	18-DEC-07	E601	0.62	0.94	<0.5	<0.5	<0.5	<1	<0.5	1	<0.5	49	<0.5
W-1656 ^a	18-DEC-07	E601	2.5	0.97	<0.5	<0.5	<0.5	<1	0.88	<0.5	<0.5	100	<0.5
W-1657 ^a	18-DEC-07	E601	12	5.1	<0.5	<0.5	<0.5	<1	4.2	0.52	<0.5	1200	<0.5
TFD-S													
W-1503	22-JUL-08	E601	4.7	1.9	<0.5	<0.5	10	<1	2	3.8	<0.5	190	0.9
W-1504	22-JUL-08	E601	<0.5	<0.5	<0.5	<0.5	14	<1	3.8	22	<0.5	79	<0.5
W-1510	22-JUL-08	E601	<0.5	<0.5	<0.5	<0.5	1.7	<1	0.5	3.7	<0.5	23	<0.5
TFD-SE													
W-314 ^a	07-JAN-08	E601	1.6	8.9	0.72	1.7	11	<1	5	21	<0.5	170	<0.5
W-1308	02-JUL-08	E601	0.51	1.2	1.6	5.1	21	<1	<0.5	110	<0.5	130	<0.5
W-1403	02-JUL-08	E601	2.9	19	1.5	6.6	51	<1	3.9	98	<0.5	430	<0.5
W-1904 ^a	26-DEC-07	E601	<0.5	<0.5	0.54	0.67	5.8	<1	<0.5	39	<0.5	42	<0.5
W-2005	02-JUL-08	E601	1.2	1	0.59	1.2	23	<1	<0.5	49	<0.5	97	<0.5
SIP-ETC-201 ^a	26-DEC-07	E601	<0.5	0.55	0.59	1.1	8.5	<1	<0.5	59	<0.5	60	<0.5
TFD-SS													
W-1523	16-JUL-08	E601	4	4.4	<0.5	1.8	11	<1	1.4	24	<0.5	160	<0.5
W-1601	16-JUL-08	E601	3.8	3.9	1.7	6.5	25	1.2	1.2	94	<0.5	260	<0.5
W-1602	16-JUL-08	E601	<0.5	1.4	<0.5	<0.5	<0.5	<1	<0.5	0.72	<0.5	11	8
W-1603 ^a	11-APR-08	E601	1.6	2	1.2	4.8	16	1.2	<0.5	33	<0.5	170	8.6
TFD-W													
W-1215	15-JUL-08	E601	<0.5	6.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	5.6	34
W-1216	15-JUL-08	E601	<0.5	4.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	5.5	60
W-1902	15-JUL-08	E601	0.69	3.4	<0.5	<0.5	<0.5	<1	0.65	<0.5	<0.5	8.3	89
TFE-E^b													
W-566 ^a	09-APR-08	E601	0.71	6.7	<0.5	<0.5	3.5	<1	9.4	4.4	<0.5	58	<0.5
W-1109 ^a	09-APR-08	E601	<0.5	0.58	0.51	<0.5	43	<1	7.9	71	<0.5	200	<0.5

Table A-2. VOC analyses of samples from treatment facility extraction wells.

Extraction Well	Date Sampled	Analytic Method	CCl ₄ <-	CHCl ₃ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TFE-E (cont.)													
W-1903 ^a	30-JUL-07	E601	<0.5	<0.5	<0.5	<0.5	23	<1	11	21	<0.5	36	<0.5
W-1909 ^a	30-JUL-07	E601	<0.5	<0.5	<0.5	<0.5	35	<1	10	48	<0.5	58	<0.5
W-2305 ^a	30-JUL-07	E601	<0.5	1.1	1.5	<0.5	99	<1	21	170	<0.5	380	<0.5
TFE-HS^b													
W-2012 ^a	09-APR-08	E601	1.9	1.8	<0.5	<0.5	9	2.9	7.9	15	<0.5	260	<0.5
W-2105 ^a	09-APR-08	E601	<0.5	1.4	<0.5	<0.5	3.2	1.4	4.4	14	<0.5	440	<0.5
TFE-NW													
W-1211	15-JUL-08	E601	0.5	1.3	<0.5	<0.5	<0.5	<1	1	<0.5	<0.5	12	<0.5
W-1409 ^a	10-APR-08	E601	<0.5	<0.5	<0.5	<0.5	1.2	<1	0.57	1.7	<0.5	30	<0.5
TFE-SE^b													
W-359 ^a	09-JAN-08	E601	4.1	0.69	<0.5	<0.5	10	<1	9.3	8.7	<0.5	100	0.91
TFE-SW													
W-1518	14-JUL-08	E601	<0.5	0.6	<0.5	<0.5	1.9	2.2	1.9	1.1	<0.5	17	<0.5
W-1520 ^a	09-JAN-08	E601	7.4	5.2	<0.5	1.3	1.7	2.3	<0.5	5.2	<0.5	130	<0.5
W-1522	14-JUL-08	E601	7.9	5	<0.5	1.2	6.1	6	0.71	7	<0.5	200	<0.5
TFE-W													
W-292	16-JUL-08	E601	<0.5	0.85	<0.5	<0.5	1	3	1.6	1.4	<0.5	25	<0.5
W-305	16-JUL-08	E601	<0.5	1.3	<0.5	<0.5	3.6	<1	28	9.5	<0.5	43	1
TFG-1													
W-1111	15-JUL-08	E601	3	10	<0.5	<0.5	1.1	<1	<0.5	1.4	<0.5	4.3	<0.5
TFG-N^b													
W-1806 ^a	09-APR-08	E601	<0.5	2.4	<0.5	<0.5	<0.5	<1	<0.5	12	<0.5	2.4	<0.5
W-1807 ^a	10-APR-08	E601	<0.5	2	<0.5	<0.5	1.5	<1	1.5	16	<0.5	5.4	<0.5
TF406^b													
W-1309 ^a	12-MAY-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	6.5	<0.5
W-1310 ^a	29-JAN-08	E601	<0.5	0.86	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	7.2	<0.5
GSW-445 ^a	12-MAY-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	2.5	<0.5
TF406-NW^b													
W-1801 ^a	28-APR-08	E601	<0.5	2.3	<0.5	<0.5	<0.5	<1	5.4	0.74	<0.5	23	<0.5

Table A-2. VOC analyses of samples from treatment facility extraction wells.

Extraction Well	Date Sampled	Analytic Method	CCl ₄ <-	CHCl ₃ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TF518-N^b W-1410 ^a	23-JAN-08	E601	2.8	1.5	<0.5	<0.5	<0.5	<1	<0.5	0.83	<0.5	18	<0.5
TF518-PZ^d W-1615 ^a	07-FEB-08	E601	0.58	0.84	<0.5	<0.5	3	<1	<0.5	42	<0.5	130	<0.5
W-518-1913 ^a	07-FEB-08	E601	<0.5	<0.5	<0.5	<0.5	7.5	<1	<0.5	18	<0.5	34	<0.5
W-518-1914 ^a	07-FEB-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	20	<0.5	5.6	<0.5
W-518-1915 ^{ac}	07-FEB-08	E601	<25	<25	<25	<25	180	<50	<25	1500	<25	12000	<25
SVB-518-201 ^a	07-FEB-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	35	<0.5	8.5	<0.5
SVB-518-204 ^a	07-FEB-08	E601	<0.5	0.63	<0.5	<0.5	1.4	<1	<0.5	43	<0.5	550	<0.5
TF5475-1^b W-1302-2 ^a	18-JUL-07	E601	1.8	19	0.73	3.4	20	<1	7.4	41	<0.5	260	<0.5
TF5475-2^b W-1108 ^a	16-JAN-08	E601	2	39	0.79	3.1	18	<1	5.9	45	<0.5	440	<0.5
W-1415 ^a	16-JAN-08	E601	0.71	3.9	<0.5	<0.5	8.4	<1	2.1	9.8	<0.5	76	<0.5
TF5475-3^b W-1604 ^a	21-AUG-07	E601	2.9	29	0.94	5.2	23	<1	17	45	<0.5	390	<0.5
W-1605 ^a	21-AUG-07	E601	1.3	13	<0.5	5.7	7.2	1.2	4	21	<0.5	210	<0.5
W-1608 ^a	21-AUG-07	E601	<0.5	9.5	0.71	3.2	2.1	3.2	1.8	7.1	<0.5	69	<0.5
W-1609 ^a	21-AUG-07	E601	<0.5	13	0.55	9.4	2.7	<1	0.94	7.9	<0.5	62	<0.5

Notes on following page.

Table A-2. VOC analyses of samples from treatment facility extraction wells.

^a Most recent VOC sample results available.

^b Treatment Facility did not operate during reporting period. Please refer to Table A-1 for details.

^c Elevated detection limit due to dilution.

^d No ground water was extracted from TF518-PZ wells during reporting period.

Notes:

CCl₄ = Carbon tetrachloride

CHCl₃ = Chloroform

1,1-DCA = 1,1-Dichloroethane

1,2-DCA = 1,2-Dichloroethane

1,1-DCE = 1,1-Dichloroethylene

1,2-DCE = 1,2-Dichloroethylene

Freon 113 = Trichlorotrifluoroethane

PCE = Tetrachloroethylene

1,1,1-TCA = 1,1,1-Trichloroethane

TCE = Trichloroethene

Freon 11 = Trichlorofluoromethane

VOC = volatile organic compound

NA = not analyzed

Numbers in **BOLD** print indicate positive values above the detection limit.

Table A-3. VOC analyses of vapor samples from treatment facility extraction wells.

Extraction Well	Date Sampled	Analytic Method	CCl ₄ <-	CHCl ₃ -	1,1-DCA -	1,2-DCA -	1,1-DCE PPM(V/V)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
VTFD-ETCS^a													
W-1904 ^b	26-JUN-07	TO15DI	<0.02	<0.02	<0.02	<0.02	0.12	<0.02	<0.02	2.2	<0.02	0.64	<0.02
W-ETC-2003 ^b	12-JUL-07	TO15DI	<0.008	<0.008	<0.008	<0.008	0.022	<0.008	<0.008	1.1	<0.008	0.26	<0.008
W-ETC-2004A ^b	12-JUL-07	TO15DI	<0.01	<0.01	<0.01	<0.01	0.021	<0.01	<0.01	1.6	<0.01	0.5	<0.01
W-ETC-2004B ^b	12-JUL-07	TO15DI	<0.02	<0.02	<0.02	<0.02	0.18	<0.02	<0.02	3.3	<0.02	1.7	<0.02
SIP-ETC-201 ^b	12-JUL-07	TO15DI	<0.01	<0.01	0.023	<0.01	0.054	<0.01	<0.01	1.6	<0.01	0.8	<0.01
VTFD-HPD^c													
W-1552 ^b	13-FEB-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.011	<0.005	0.2	<0.005
W-1650 ^b	03-JUL-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
W-1651 ^b	03-JUL-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
W-1652 ^b	03-JUL-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
W-1653 ^b	03-JUL-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
W-1654 ^b	03-JUL-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
W-1655 ^b	03-JUL-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
W-1656 ^b	03-JUL-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
W-1657 ^b	03-JUL-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
W-HPA-002B ^b	03-JUL-07	TO15DI	0.032	0.024	<0.0057	<0.0057	0.011	<0.0057	<0.0057	0.1	<0.0057	1	<0.0057
VTFD-HS^d													
W-653 ^b	15-FEB-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.093	<0.005
W-2011 ^b	15-FEB-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.081	<0.005
W-2101 ^b	15-FEB-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.061	<0.005
W-2102 ^b	15-FEB-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.11	<0.005
VTFE-ELM^e													
W-1903 ^b	16-AUG-07	TO15DI	<0.0084	<0.0084	<0.0084	<0.0084	1.4	<0.0084	0.36	1.4	<0.0084	1.5	<0.0084
W-1909 ^b	16-JUL-07	TO15DI	<0.008	<0.008	<0.008	<0.008	1.2	<0.008	0.36	0.04	<0.008	0.19	<0.008
W-2305 ^b	16-AUG-07	TO15DI	<0.005	<0.005	<0.005	<0.005	0.014	<0.005	0.016	0.064	<0.005	0.069	<0.005
W-543-001 ^b	05-FEB-08	TO15DI	<0.005	<0.005	<0.005	<0.005	0.0096	<0.005	<0.005	0.13	<0.005	0.038	<0.005
W-543-003 ^b	05-FEB-08	TO15DI	<0.005	0.0069	<0.005	<0.005	0.052	<0.005	0.012	0.11	<0.005	0.29	<0.005
W-543-1908 ^b	05-FEB-08	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.015	<0.005	0.023	<0.005
VTFE-HS^f													
W-ETS-2008A ^b	30-JAN-08	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.031	<0.005	0.057	<0.005
W-ETS-2008B ^b	05-FEB-08	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.015	0.14	<0.005	0.4	<0.005
W-ETS-2009 ^b	30-JAN-08	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.062	<0.005	0.092	<0.005
W-ETS-2010A ^b	30-JAN-08	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.046	<0.005	0.096	<0.005
W-ETS-2010B ^b	30-JAN-08	TO15DI	<0.005	<0.005	<0.005	<0.005	0.021	0.0054	0.058	0.37	<0.005	1	<0.005
W-2105 ^b	30-JAN-08	TO15DI	<0.005	<0.005	<0.005	<0.005	0.014	<0.005	0.01	0.022	<0.005	0.13	<0.005

Table A-3. VOC analyses of vapor samples from treatment facility extraction wells.

Extraction Well	Date Sampled	Analytic Method	CCl ₄ <-	CHCl ₃ -	1,1-DCA -	1,2-DCA -	1,1-DCE PPM(V/V)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
VTF406-HS^g													
W-217 ^b	26-JUN-08	TO15DI	0.33	0.037	0.015	<0.005	2	0.013	0.38	2.9	<0.005	2.8	<0.005
W-514-2007A ^b	26-JUN-08	TO15DI	0.018	<0.005	<0.005	<0.005	0.012	<0.005	0.01	0.066	<0.005	0.37	0.19
W-514-2007B ^b	26-JUN-08	TO15DI	0.11	0.018	0.0096	<0.005	1	0.01	0.082	1.4	<0.005	2.7	0.016
VTF511^h													
W-274 ^b	04-OCT-06	TO15DI	0.14	0.02	<0.0062	<0.0062	0.07	<0.0062	0.014	0.33	<0.0062	6.1	0.38
W-1517 ^b	20-DEC-07	TO15DI	0.0066	<0.005	<0.005	<0.005	0.0068	<0.005	<0.005	0.022	<0.005	0.65	0.016
W-2204 ^b	01-AUG-07	TO15DI	0.089	0.069	<0.02	0.091	0.039	<0.02	<0.02	0.26	<0.02	3.4	<0.02
W-2206 ^b	01-AUG-07	TO15DI	0.024	0.057	<0.02	0.25	<0.02	<0.02	<0.02	0.27	<0.02	2.9	<0.02
W-2207A ^b	26-FEB-08	TO15DI	<0.005	<0.005	<0.005	<0.005	0.0066	<0.005	<0.005	0.0064	<0.005	1.9	<0.005
W-2207B	07-AUG-08	TO15DI	0.032	0.023	<0.0062	<0.0062	0.083	<0.0062	<0.0062	0.044	<0.0062	4.2	<0.0062
W-2208A ^b	26-FEB-08	TO15DI	0.18	0.047	<0.02	<0.02	0.37	<0.02	0.032	0.11	<0.02	15	0.75
W-2208B	07-AUG-08	TO15DI	0.56	0.18	0.17	<0.072	3.6	0.11	0.19	1.8	<0.072	58	0.19
W-2205 ^b	01-AUG-07	TO15DI	0.087	0.14	<0.031	0.035	0.056	<0.031	<0.031	0.19	<0.031	5.5	<0.031
VTF518-PZⁱ													
W-1615 ^b	15-JAN-08	TO15DI	0.1	<0.025	<0.025	<0.025	0.96	<0.025	0.96	8.7	<0.025	17	<0.025
W-518-1913 ^b	15-JAN-08	TO15DI	0.012	0.006	0.007	<0.005	1.7	<0.005	0.063	2	<0.005	4.5	<0.005
W-518-1914 ^b	15-JAN-08	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.98	<0.005	0.28	<0.005
W-518-1915 ^b	15-JAN-08	TO15DI	<0.0066	<0.0066	<0.0066	<0.0066	0.29	<0.0066	0.01	1.6	<0.0066	5.9	<0.0066
SVB-518-201 ^b	15-JAN-08	TO15DI	<0.005	<0.005	<0.005	<0.005	0.016	<0.005	<0.005	3.9	<0.005	0.34	<0.005
SVB-518-204 ^b	15-JAN-08	TO15DI	<0.02	<0.02	<0.02	<0.02	0.051	<0.02	<0.02	2.4	<0.02	15	<0.02
VTF5475^j													
W-ETS-507 ^b	06-SEP-07	TO15DI	<0.005	0.85	<0.005	0.62	<0.005	<0.005	<0.005	0.15	<0.005	0.67	<0.005
W-1605 ^b	06-SEP-07	TO15DI	0.0069	0.17	<0.005	0.15	0.11	<0.005	0.036	0.1	<0.005	0.85	<0.005
W-1608 ^b	06-SEP-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0061	<0.005
W-2211 ^b	12-OCT-07	TO15DI	<0.005	0.49	0.012	0.15	0.14	<0.005	0.01	0.11	<0.005	1.2	<0.005
W-2212 ^b	12-OCT-07	TO15DI	0.056	0.75	0.024	0.039	1.1	<0.005	0.16	0.66	<0.005	3.8	<0.005
W-2302 ^b	05-OCT-07	TO15DI	0.032	0.47	0.022	<0.017	0.73	<0.017	0.063	0.86	<0.017	11	<0.017
W-2303 ^b	05-OCT-07	TO15DI	0.009	0.88	0.038	0.083	0.4	<0.005	0.0088	0.36	<0.005	3.7	<0.005
SVI-ETS-504 ^b	12-OCT-07	TO15DI	<0.005	0.32	0.0052	0.14	0.073	<0.005	<0.005	0.064	<0.005	0.34	<0.005

Notes on following page.

Table A-3. VOC analyses of vapor samples from treatment facility extraction wells.

^a VTFD-ETCS did not operate during reporting period due to the budget reduction.

^b Most recent VOC vapor sample results available.

^c VTFD-HPD did not operate during reporting period due to the budget reduction.

^d VTFD-HS did not operate during reporting period due to the budget reduction.

^e VTFE-ELM did not operate during reporting period due to the budget reduction.

^f VTFE-HS did not operate during reporting period due to the budget reduction.

^g VTF406-HS did not operate during reporting period due to recent flow totals being suspect.

^h VTF511 failed early August due to electronic operating system issues which will be investigated and repaired as manpower and priorities allow.

ⁱ VTF518-PZ did not operate during reporting period due to the budget reduction.

^j VTF5475 did not operate during reporting period due to the budget reduction.

Notes:

CCl₄ = Carbon tetrachloride

CHCl₃ = Chloroform

1,1-DCA = 1,1-Dichloroethane

1,2-DCA = 1,2-Dichloroethane

1,1-DCE = 1,1-Dichloroethylene

1,2-DCE = 1,2-Dichloroethylene

Freon 113 = Trichlorotrifluoroethane

PCE = Tetrachloroethylene

1,1,1-TCA = 1,1,1-Trichloroethane

TCE = Trichloroethene

Freon 11 = Trichlorofluoromethane

VOC = volatile organic compound

NA = not analyzed

Numbers in **BOLD** print indicate positive values above the detection limit.

Table A-4. Chromium analyses of influent, effluent and receiving water samples by treatment facility.

Treatment Facility	Sample Station	Date Sampled	Chromium (total)^a mg/L (ppm)	Hexavalent Chromium mg/L (ppm)
TFA	TFA-I001	01-JUL-08	0.011	0.012
	TFA-E001	01-JUL-08	0.012	0.012
TFA-E	W-254	08-JUL-08	0.0056	NA
	STU06-E	08-JUL-08	0.0088	NA
TFB	TFB-I002	01-JUL-08	0.016	NA
	TFB-E002	01-JUL-08	0.018	NA
	TFB-E002	04-AUG-08	0.02	NA
	TFB-E002	03-SEP-08	0.02	NA
	TFB-R002	01-JUL-08	0.017	NA
TFC	TFC-I003	02-JUL-08	0.024	NA
	TFC-E003	02-JUL-08	0.022	NA
	TFC-E003	04-AUG-08	0.024	NA
	TFC-E003	03-SEP-08	0.024	NA
	TFC-R003	02-JUL-08	0.0069	NA
TFD	TFD-I004	07-JUL-08	0.013	NA
	TFD-E004	07-JUL-08	0.013	NA
TFD-E	PTU8-I	07-JUL-08	0.0066	NA
	PTU8-E	07-JUL-08	0.0065	NA
TFD-S	PTU2-I	22-JUL-08	0.008	NA
	PTU2-E	22-JUL-08	0.0093	NA
TFD-SE	PTU11-I	02-JUL-08	0.015	NA
	PTU11-E	02-JUL-08	0.015	NA
TFD-SS	PTU12-I	16-JUL-08	0.012	NA
	PTU12-E	16-JUL-08	0.012	NA
TFD-W	PTU6-I	15-JUL-08	0.014	NA
	PTU6-E	15-JUL-08	0.015	NA
TFE-NW	PTU9-I	15-JUL-08	0.0099	NA
	PTU9-E	15-JUL-08	0.0097	NA
TFE-SW	MTU03-I	14-JUL-08	0.0051	NA
	MTU03-E	14-JUL-08	0.0057	NA
TFE-W	MTU05-I	16-JUL-08	0.0098	NA
	MTU05-E	16-JUL-08	0.0095	NA
TFG-1	GTU01-I	15-JUL-08	0.0082	NA
	GTU01-E	15-JUL-08	0.0072	NA

^aA discharge limit of 0.050 ppm is set for total chromium during the dry season (April 1-November 30), and no limit is set for total chromium for the wet season (December 1-March 31); however, a limit of 0.022 ppm hexavalent chromium applies during the wet season. Discharge limits are defined in the Explanation of Significant Differences for metals discharge limits (April 1997).

Shaded values exceeded the discharge limit. See text for explanation.

Table A-5. Bioassay, turbidity, and chloride analyses of influent and effluent samples by treatment facility.

Treatment Facility	Sample Station	Date Sampled	Aquatic Bioassay^a Percent Survival	Turbidity Nephelometric Turbidity Units (NTU)	Chloride (mg/L)
TFA	TFA-I001	01-JUL-08	NA	NA	83
TFA	TFA-E001	01-JUL-08	100 (100)	0.2	82
TFA-E	STU06-E	08-JUL-08	100 (100)	NA	NA
TFB	TFB-E002	01-JUL-08	100 (100)	NA	NA
TFC	TFC-E003	02-JUL-08	100 (100)	NA	NA
TFD	TFD-E004	07-JUL-08	100 (100)	NA	NA
TFD-E	PTU8-E	07-JUL-08	100 (100)	NA	NA
TFD-S	PTU2-E	22-JUL-08	100 (100)	NA	NA
TFD-SE	PTU11-E	02-JUL-08	100 (100)	NA	NA
TFD-SS	PTU12-E	16-JUL-08	100 (100)	NA	NA
TFD-W	PTU6-E	15-JUL-08	100 (100)	NA	NA
TFE-NW	PTU9-E	15-JUL-08	100 (100)	NA	NA
TFE-SW	MTU03-E	14-JUL-08	100 (100)	NA	NA
	MTU03-E	15-JUL-08	100 (100)	NA	NA
TFE-W	MTU05-E	16-JUL-08	100 (100)	NA	NA
TFG-1	GTU01-E	15-JUL-08	100 (100)	NA	NA

^aTest species was Fathead minnow and the test duration was 96 hours.

Percent survival in the control group samples shown in parentheses.

Note: NA = not applicable

Explanation of Abbreviations

TFA-I001 is a sampling port located immediately prior to the TFA Treatment System.

TFA-E001 is a sampling port located immediately after the TFA Treatment System, at the beginning of the discharge pipeline.

TFA receiving water is routinely sampled at the TFG-ASW location.

TFA-W-I is an influent sampling port prior to the sediment bag filter immediately following W-404.

TFA-W-E is an effluent sampling port immediately following the sediment bag filter; the water is then discharged to the Livermore Water Reclamation Plant (LWRP).

TFB-I002 is a sampling port located immediately prior to the TFB Treatment System.

TFB-E002 is a sampling port located immediately after the TFB Treatment System, at the beginning of the discharge pipeline.

TFB-R002 is a sampling station in the drainage ditch north of TFB, located approximately 75 ft downstream from the discharge point.

TFC-I003 is a sampling port located immediately prior to the TFC Treatment System.

TFC-E003 is a sampling port located immediately after the TFC Treatment System, at the beginning of the discharge pipeline.

TFC-R003 is a sampling station in Arroyo Las Positas, located approximately 75 ft downstream from the TFC discharge point.

TFD-I004 is a sampling port located immediately prior to the TFD Treatment System.

TFD-E004 is a sampling port located immediately after the TFD Treatment System, prior to discharge to the Drainage Retention Basin or to the underground discharge pipeline leading to Arroyo Las Positas.

TFD-R004 is now combined with and collected at the TFC-R003 location. Results are reported under TFC-R003, as approved by the RWQCB.

CRD1-I is a sampling port located immediately prior to the catalytic column in the Catalytic Reductive Dehalogenation treatment unit 1 (CRD1).

CRD1-E is the effluent from the catalytic column in the Catalytic Reductive Dehalogenation treatment unit 1 (CRD1) and then reinjected at W-1302.

CRD2-I is a sampling port located immediately prior to the catalytic columns in the Catalytic Reductive Dehalogenation treatment unit 2 (CRD2).

CRD2-E is the effluent from the last catalytic column in the Catalytic Reductive Dehalogenation treatment unit 2 (CRD2) and then reinjected at W-1610.

GTU01-I is a sampling port located immediately prior to GTU01, which is currently operating in the TFG-1 area.

GTU01-E is a sampling port located immediately after GTU01, which is currently operating in the TFG-1 area.

GTU01 receiving water is routinely sampled at the TFG-ASW location.

GTU03-I is a sampling port located immediately prior to GTU03, which is currently operating in the TF406 Northwest area.

GTU03-E is a sampling port located immediately after GTU03, which is currently operating in the TF406 Northwest area.

GTU03 receiving water is routinely sampled at the TFC-R003 location.

GTU07-I is a sampling port located immediately prior to GTU07, which is currently operating in the TFE Hotspot area.

GTU07-E is a sampling port located immediately after GTU07, which is currently operating in the TFE Hotspot area.

GTU07 receiving water is routinely sampled at the TFC-R003 location.

GTU09-I is a sampling port located immediately prior to GTU09, which is currently operating in the TF5475 area.

GTU09-E is a sampling port located immediately after GTU09, which is currently operating in the TF5475 area.

GTU09 receiving water is routinely sampled at the TFC-R003 location.

MTU02-I is a sampling port located immediately prior to MTU02, which is currently operating in the TFG North area.

MTU02-E is a sampling port located immediately after MTU02, which is currently operating in the TFG North area.

MTU02 receiving water is routinely sampled at the TFC-R003 location.

MTU03-I is a sampling port located immediately prior to MTU03, which is currently operating in the TFE Southwest area.

MTU03-E is a sampling port located immediately after MTU03, which is currently operating in the TFE Southwest area.

MTU03 receiving water is routinely sampled at the TFC-R003 location.

MTU04-I is a sampling port located immediately prior to MTU04, which is currently operating in the TFE Southeast area.

MTU04-E is a sampling port located immediately after MTU04, which is currently operating in the TFE Southeast area.

MTU04 receiving water is routinely sampled at the TFC-R003 location.

MTU05-I is a sampling port located immediately prior to MTU05, which is currently operating in the TFE West area.

MTU05-E is a sampling port located immediately after MTU05, which is currently operating in the TFE West area.

Explanation of Abbreviations

MTU05 receiving water is routinely sampled at the TFC-R003 location.

MTU1-I is a sampling port located immediately prior to MTU1, which is currently operating in the TFC East area.

MTU1-E is a sampling port located immediately after MTU1, which is currently operating in the TFC East area.

MTU1 receiving water is routinely sampled at the TFC-R003 location.

PTU1-I is a sampling port located immediately prior to PTU-1, which is currently operating in the TFC Southeast area.

PTU1-E is a sampling port located immediately after PTU-1, which is currently operating in the TFC Southeast area.

PTU1 receiving water is routinely sampled at the TFC-R003 location.

PTU2-I is a sampling port located immediately prior to PTU-2, which is currently operating in the TFD South area.

PTU2-E is a sampling port located immediately after PTU-2, which is currently operating in the TFD South area.

PTU2 receiving water is routinely sampled at TFC-R003 during the wet season.

PTU3-I is a sampling port located immediately prior to PTU-3, which is currently operating in the TFE East area.

PTU3-E is a sampling port located immediately after PTU-3, which is currently operating in the TFE East area.

PTU3 receiving water is routinely sampled at the TFC-R003 location.

PTU5-I is a sampling port located immediately prior to PTU-5, which is currently operating in the TF406 extraction location.

PTU5-E is a sampling port located immediately after PTU-5, which is currently operating in the TF406 extraction location.

PTU5 receiving water is routinely sampled at the TFC-R003 location.

PTU6-I is a sampling port located immediately prior to PTU-6, which is currently operating in the TFD West area.

PTU6-E is a sampling port located immediately after PTU-6, which is currently operating in the TFD West area.

PTU6 receiving water is routinely sampled at the TFC-R003 location.

PTU8-I is a sampling port located immediately prior to PTU-8, which is currently operating in the TFD East area.

PTU8-E is a sampling port located immediately after PTU-8, which is currently operating in the TFD East area.

PTU8 receiving water is routinely sampled at the TFC-R003 location.

PTU9-I is a sampling port located immediately prior to PTU-9, which is currently operating in the TFE Northwest area.

PTU9-E is a sampling port located immediately after PTU-9, which is currently operating in the TFE Northwest area.

PTU9 receiving water is routinely sampled at the TFC-R003 location.

PTU10-I is a sampling port located immediately prior to PTU-10, which is currently operating in the TFD Helipad area.

PTU10-E is a sampling port located immediately after PTU-10, which is currently operating in the TFD Helipad area.

PTU10 receiving water is routinely sampled at the TFC-R003 location.

PTU11-I is a sampling port located immediately prior to PTU-11, which is currently operating in the TFD Southeast area.

PTU11-E is a sampling port located immediately after PTU-11, which is currently operating in the TFD Southeast area.

PTU11 receiving water is routinely sampled at the TFC-R003 location.

PTU12-I is a sampling port located immediately prior to PTU-12, which is currently operating in the TFD Southshore area.

PTU12-E is a sampling port located immediately after PTU-12, which is currently operating in the TFD Southshore area.

PTU12 receiving water is routinely sampled at the TFC-R003 location.

STU06-I is a sampling port located immediately prior to STU06, which is operating in the TFA East area.

STU06-E is a sampling port located immediately after STU06, which is operating in the TFA East area.

STU06 receiving water is routinely sampled at the TFG-ASW location.

STU09-I is a sampling port located immediately prior to STU09, which is currently operating in the TF518-North area.

STU09-E is a sampling port located immediately after STU09, which is currently operating in the TF518-North area.

STU09 receiving water is routinely sampled at the TFC-R003 location.

Attachment B

Self-Monitoring Reports

Self-Monitoring Report

LLNL Treatment Facility A (TFA)

AREA TFA

1. Reporting Period: Business Month July Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

July	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	11	12	13	14	15	
	16	17	18	19	20	21	22	23	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>	<u>31</u>

Total monthly time facility operated (hours): 401

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>07-01-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>19.2</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-408	0	0.0
W-109	702,700	33.3
W-457	147,100	7.7
W-522	0	0.0
W-602	0	0.0
W-614	0	0.0
W-712	196,300	8.3
W-714	158,900	7.2
W-904	579,400	30.9
W-415	0	0.0
W-518	0	0.0
W-601	0	0.0
W-603	0	0.0
W-520	0	0.0
W-605	249,300	10.6
W-262	0	0.0
W-609	0	0.0
W-903	0	0.0
W-1004	296,900	12.6
W-1009	597,000	25.3
W-1001	0	0.0
Total:	<u>2,927,600</u>	<u>135.9</u>

5. Discharge Information:

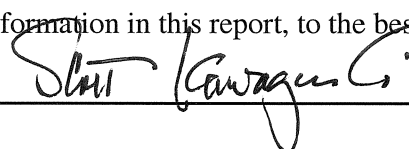
Self-Monitoring Report (cont'd)
LLNL Treatment Facility A (TFA)
AREA TFA

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>West Perimeter Drainage Channel</u>	<u>TFB-R002</u>	<u>1,463,800</u>
<u>Arroyo Seco</u>	<u>TFG-ASW</u>	<u>1,463,800</u>

6. Comments:

Facility secured on 7-10-08 due to flow meter problems. Flow meter problem resolved, and facility restarted on 7-24-08.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 08-01-2008

Self-Monitoring Report

LLNL Treatment Facility A (TFA)

AREA TFA

1. Reporting Period: Business Month August Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	

Total monthly time facility operated (hours): **291**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>08-04-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>19.6</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-408	0	0.0
W-109	571,400	33.3
W-457	109,300	7.5
W-522	0	0.0
W-614	0	0.0
W-712	137,100	8.3
W-714	108,200	6.5
W-904	451,600	31.1
W-415	0	0.0
W-518	0	0.0
W-605	177,400	10.4
W-262	0	0.0
W-903	0	0.0
W-1004	208,400	12.7
W-1009	414,900	24.9
W-1001	0	0.0
<hr/>		
Total:	<u>2,178,300</u>	<u>134.7</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>West Perimeter Drainage Channel</u>	<u>TFB-R002</u>	<u>1,089,150</u>

Self-Monitoring Report (cont'd)
LLNL Treatment Facility A (TFA)
AREA TFA

Arroyo Seco

TFG-ASW

1,089,150

6. Comments:

Facility went down on 8-11-08 due to control system failure.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____

Shirley Cawthon G.

Date: 08-29-2008

Self-Monitoring Report

LLNL Treatment Facility A (TFA)

AREA TFA

1. Reporting Period: Business Month September Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August	30	31													
September	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-408	0	0.0
W-109	0	0.0
W-457	0	0.0
W-522	0	0.0
W-614	0	0.0
W-712	0	0.0
W-714	0	0.0
W-904	0	0.0
W-415	0	0.0
W-518	0	0.0
W-903	0	0.0
W-605	0	0.0
W-262	0	0.0
W-1004	0	0.0
W-1009	0	0.0
W-1001	0	0.0
<hr/>		
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>West Perimeter Drainage Channel</u>	<u>TFB-R002</u>	<u>0</u>

Self-Monitoring Report (cont'd)
LLNL Treatment Facility A (TFA)
AREA TFA

Arroyo Seco

TFG-ASW

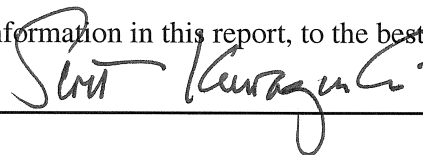
0

6. Comments:

This treatment facility was shut down on 8-11-08 due to a problem with the facility control system. It has not been restarted due to a FY 2008 funding reduction. Facilities will be restarted in a prioritized order, pending available staff and resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____



Date: 10-09-2008

Self-Monitoring Report
LLNL Solar Treatment Unit 06 (STU06)
AREA TFA-E

1. Reporting Period: Business Month July Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

July 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): 344

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 07-08-2008
Influent pH: 7.0
Effluent pH: 7.5
Effluent Temperature (°C): 23.4

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-254	35,095	1.7
Total:	<u>35,095</u>	<u>1.7</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Seco</u>	<u>TFG-ASW</u>	<u>35,095</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Kewagun Date: 07-31-2008

Self-Monitoring Report
LLNL Solar Treatment Unit 06 (STU06)
AREA TFA-E

1. Reporting Period: Business Month August Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): 293

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 08-05-2008
Influent pH: 7.0
Effluent pH: 7.5
Effluent Temperature (°C): 19.9

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-254	28,885	1.7
Total:	<u>28,885</u>	<u>1.7</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Seco</u>	<u>TFG-ASW</u>	<u>28,885</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Kawaguchi Date: 08-29-2008

Self-Monitoring Report
LLNL Solar Treatment Unit 06 (STU06)
AREA TFA-E

1. Reporting Period: Business Month September Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August	30	31																										
September	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15													
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30													

Total monthly time facility operated (hours): 14

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-254	1,402	0.0
Total:	<u>1,402</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Seco</u>	<u>TFG-ASW</u>	<u>1,402</u>

6. Comments:

Facility down from 8-29-08 through 9-2-08 due to weak battery. Restarted system on 9-2-08. System went down on 9-2-08 due to weak battery. Battery replaced on 9-4-08. System restarted on 9-4-08. System went down on 9-4-08 due to possible transducer failure. Could not restart facility.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____

Scott Kawaguchi

Date: 09-30-2008

**Self-Monitoring Report
LLNL LWRP (LWRP)
AREA TFA-W**

1. Reporting Period: Business Month July Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

July	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	<u>16</u>	17	18	19	20	21	22	23	24	25	26	27	28	29	30 31

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>07-16-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>21.5</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-404	472	32.4
Total:	<u>472</u>	<u>32.4</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>LWRP @ 5513Z Charlotte Way</u>	<u>TFA-W-E</u>	<u>472</u>

6. Comments:

Operations were suspended on 1/14/08. The pump in well W-404 is turned on only for very limited durations for routine sampling.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **08-04-2008**

**Self-Monitoring Report
LLNL LWRP (LWRP)
AREA TFA-W**

1. Reporting Period: Business Month August Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August 01 02 03 04 05 06 07 08 09 10 **11** 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **08-11-2008**
Influent pH: **7.5**
Effluent pH: **7.5**
Effluent Temperature (°C): **21.4**

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-404	245	32.5
Total:	<u>245</u>	<u>32.5</u>

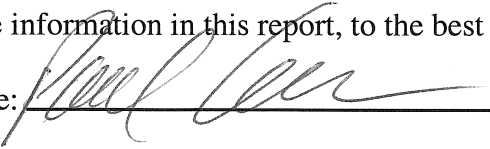
5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>LWRP @ 5513Z Charlotte Way</u>	<u>TFA-W-E</u>	<u>245</u>

6. Comments:

Operations were suspended on 1/14/08. The pump in well W-404 is turned on only for very limited durations for routine sampling.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **09-03-2008**

**Self-Monitoring Report
LLNL LWRP (LWRP)
AREA TFA-W**

1. Reporting Period: Business Month September Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August	30	31																	
September	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15				
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30				

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-404	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>LWRP @ 5513Z Charlotte Way</u>	<u>TFA-W-E</u>	<u>0</u>

6. Comments:

Operations were suspended on 1/14/08. The pump in well W-404 is turned on only for very limited durations for routine sampling. Unable to collect September 2008 samples due to pump controller failure, repairs pending.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **10-02-2008**

Self-Monitoring Report
LLNL Treatment Facility B (TFB)
AREA TFB

1. Reporting Period: Business Month July Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

July 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): 649

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 07-01-2008
Influent pH: 7.5
Effluent pH: 7.5
Effluent Temperature (°C): 20.2

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-357	192,200	6.7
W-610	194,900	5.4
W-621	278,600	7.6
W-620	178,400	5.5
W-655	247,500	7.0
W-704	223,800	6.8
W-1423	243,600	6.3
Total:	<u>1,559,000</u>	<u>45.3</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>West Perimeter Drainage Channel</u>	<u>TFB-R002</u>	<u>1,559,000</u>

6. Comments:

Facility down on 7-13-08 due to power surge. Restarted on 7-14-08. Facility secured on 7-17-08 to adjust accumulator readings. Accumulator readings corrected and interlock settings entered. Facility restarted on 7-22-08.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 07-31-2008

Land Observation Report date:
TFB-R002 - West Perimeter Drainage Channel

1. Reporting Period: Business Month July Year 2008

2. Date compliance sampling performed 07-01-2008

3. Weather Conditions:

Average air tempertaure (°C):	<u>18.6</u>
6-day total precipitation (in):	<u>0</u>
Average wind speed/direction (mph):	<u>5/ SW</u>

4. Receiving Data:

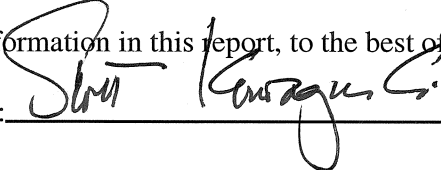
Sample		
<u>Location</u>	<u>pH</u>	<u>Temperature (C)</u>
<u>Receiving Water</u>	<u>N/M</u>	<u>N/M</u>

5. Land Observations, as "Yes" or "No", for reporting month:

<u>Visual Observations</u>	<u>Effluent</u>	<u>Receiving Water</u>
Floating and Suspended Materials of Waste Origin	<u>No</u>	<u>No</u>
Odor	<u>No</u>	<u>No</u>
Discoloration and Turbidity	Not Required	<u>No</u>
Evidence of Beneficial Water Use	Not Required	<u>No</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 07-31-2008

Self-Monitoring Report
LLNL Treatment Facility B (TFB)
AREA TFB

1. Reporting Period: Business Month August Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** **12** **13** **14** **15**
16 **17** **18** **19** **20** **21** **22** **23** **24** **25** **26** **27** **28** **29**

Total monthly time facility operated (hours): 705

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 08-04-2008
Influent pH: 7.5
Effluent pH: 7.5
Effluent Temperature (°C): 21.4

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-357	248,600	5.9
W-621	318,900	7.8
W-620	161,600	3.7
W-610	225,000	5.4
W-704	257,400	6.1
W-655	275,900	6.7
W-1423	290,900	6.9
Total:	<u>1,778,300</u>	<u>42.5</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>West Perimeter Drainage Channel</u>	<u>TFB-R002</u>	<u>1,778,300</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Kawaguchi Date: 08-29-2008

**Land Observation Report date:
TFB-R002 - West Perimeter Drainage Channel**

1. Reporting Period: Business Month August Year 2008

2. Date compliance sampling performed 08-04-2008

3. Weather Conditions:

Average air tempertaure (°C):	<u>19.4</u>
6-day total precipitation (in):	<u>0</u>
Average wind speed/direction (mph):	<u>6/ SW</u>

4. Receiving Data:

Sample		
<u>Location</u>	<u>pH</u>	<u>Temperature (C)</u>
<u>Receiving Water</u>	<u>N/M</u>	<u>N/M</u>

5. Land Observations, as "Yes" or "No", for reporting month:

<u>Visual Observations</u>	<u>Effluent</u>	<u>Receiving Water</u>
Floating and Suspended Materials of Waste Origin	<u>No</u>	<u>No</u>
Odor	<u>No</u>	<u>No</u>
Discoloration and Turbidity	Not Required	<u>No</u>
Evidence of Beneficial Water Use	Not Required	<u>No</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Steve Kewagon Date: 08-29-2008

Self-Monitoring Report
LLNL Treatment Facility B (TFB)
AREA TFB

1. Reporting Period: Business Month September Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August	<u>30</u>	<u>31</u>																	
September	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>				
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>				

Total monthly time facility operated (hours): 733

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>09-03-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>21.6</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-357	251,800	5.8
W-621	330,900	7.3
W-620	163,500	3.7
W-610	225,700	5.5
W-704	267,900	6.1
W-655	276,800	6.5
W-1423	316,200	7.1
Total:	<u>1,832,800</u>	<u>42.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>West Perimeter Drainage Channel</u>	<u>TFB-R002</u>	<u>1,832,800</u>

6. Comments:

Facility down intermittently 9-22-08 through 9-26-08 due to low air flow.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sean Karagan G. Date: 09-30-2008

**Land Observation Report date:
TFB-R002 - West Perimeter Drainage Channel**

1. Reporting Period: Business Month September Year 2008

2. Date compliance sampling performed 09-03-2008

3. Weather Conditions:

Average air tempertaure (°C):	<u>22.8</u>
6-day total precipitation (in):	<u>0</u>
Average wind speed/direction (mph):	<u>4/ SSW</u>

4. Receiving Data:

Sample		
<u>Location</u>	<u>pH</u>	<u>Temperature (C)</u>
<u>Receiving Water</u>	<u>N/M</u>	<u>N/M</u>

5. Land Observations, as "Yes" or "No", for reporting month:

<u>Visual Observations</u>	<u>Effluent</u>	<u>Receiving Water</u>
Floating and Suspended Materials of Waste Origin	<u>No</u>	<u>No</u>
Odor	<u>No</u>	<u>No</u>
Discoloration and Turbidity	Not Required	<u>No</u>
Evidence of Beneficial Water Use	Not Required	<u>No</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Ston Kwagun S. Date: 09-30-2008

**Self-Monitoring Report
LLNL Treatment Facility C (TFC)
AREA TFC**

1. Reporting Period: Business Month July Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

July 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): 688

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 07-02-2008
Influent pH: 7.5
Effluent pH: 7.5
Effluent Temperature (°C): 20.8

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-701	561,847	13.6
W-1015	279,401	6.7
W-1116	71,856	1.9
W-1103	91,016	2.1
W-1102	116,112	3.3
W-1104	1,141,635	27.5
Total:	<u>2,261,867</u>	<u>55.1</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>2,261,867</u>

6. Comments:

Facility down due to watchdog alarm on 7-26-08. Restarted system on 7-28-08.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Kawaguchi Date: 07-31-2008

**Land Observation Report date:
TFC-R003 - Arroyo Las Positas**

1. Reporting Period: Business Month July Year 2008

2. Date compliance sampling performed 07-02-2008

3. Weather Conditions:

Average air tempertaure (°C):	<u>18.5</u>
6-day total precipitation (in):	<u>0</u>
Average wind speed/direction (mph):	<u>6/ SW</u>

4. Receiving Data:

Sample		
<u>Location</u>	<u>pH</u>	<u>Temperature (C)</u>
<u>Receiving Water</u>	<u>N/M</u>	<u>N/M</u>

5. Land Observations, as "Yes" or "No", for reporting month:

<u>Visual Observations</u>	<u>Effluent</u>	<u>Receiving Water</u>
Floating and Suspended Materials of Waste Origin	<u>No</u>	<u>No</u>
Odor	<u>No</u>	<u>No</u>
Discoloration and Turbidity	Not Required	<u>No</u>
Evidence of Beneficial Water Use	Not Required	<u>No</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 07-31-2008

Self-Monitoring Report
LLNL Treatment Facility C (TFC)
AREA TFC

1. Reporting Period: Business Month August Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** **12** **13** **14** **15**
16 **17** **18** **19** **20** **21** **22** **23** **24** **25** **26** **27** **28** **29**

Total monthly time facility operated (hours): **670**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **08-04-2008**
Influent pH: **7.5**
Effluent pH: **7.5**
Effluent Temperature (°C): **20.2**

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-701	542,859	13.5
W-1015	270,014	6.8
W-1116	58,334	1.4
W-1103	92,931	2.1
W-1102	96,505	3.4
W-1104	1,106,764	27.6
Total:	<u>2,167,407</u>	<u>54.8</u>

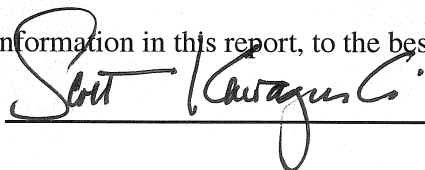
5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>2,167,407</u>

6. Comments:

Facility secured on 8-19-08 to change out diffusers. Diffusers changed out and facility restarted on 8-20-08.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **08-29-2008**

**Land Observation Report date:
TFC-R003 - Arroyo Las Positas**

1. Reporting Period: Business Month August Year 2008

2. Date compliance sampling performed 08-04-2008

3. Weather Conditions:

Average air tempertaure (°C):	<u>19.4</u>
6-day total precipitation (in):	<u>0</u>
Average wind speed/direction (mph):	<u>6/ SW</u>

4. Receiving Data:

Sample		
<u>Location</u>	<u>pH</u>	<u>Temperature (C)</u>
<u>Receiving Water</u>	<u>N/M</u>	<u>N/M</u>

5. Land Observations, as "Yes" or "No", for reporting month:

<u>Visual Observations</u>	<u>Effluent</u>	<u>Receiving Water</u>
Floating and Suspended Materials of Waste Origin	<u>No</u>	<u>No</u>
Odor	<u>No</u>	<u>No</u>
Discoloration and Turbidity	Not Required	<u>No</u>
Evidence of Beneficial Water Use	Not Required	<u>No</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Shirley Kaurigan C. Date: 08-29-2008

Self-Monitoring Report

LLNL Treatment Facility C (TFC)

AREA TFC

1. Reporting Period: Business Month September Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August	<u>30</u>	<u>31</u>																				
September	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>							
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>							

Total monthly time facility operated (hours): 767

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>09-03-2008</u>
Influent pH:	<u>7.0</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>21.6</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-701	622,546	13.3
W-1015	310,644	6.7
W-1116	57,834	1.8
W-1103	114,366	2.0
W-1102	107,492	3.6
W-1104	1,265,946	27.2
<hr/>		
Total:	<u>2,478,828</u>	<u>54.6</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>2,478,828</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Steve Kuwagata Date: 09-30-2008

**Land Observation Report date:
TFC-R003 - Arroyo Las Positas**

1. Reporting Period: Business Month September Year 2008

2. Date compliance sampling performed 09-03-2008

3. Weather Conditions:

Average air tempertaure (°C):	<u>22.8</u>
6-day total precipitation (in):	<u>0</u>
Average wind speed/direction (mph):	<u>4/ SSW</u>

4. Receiving Data:

Sample		
<u>Location</u>	<u>pH</u>	<u>Temperature (C)</u>
<u>Receiving Water</u>	<u>N/M</u>	<u>N/M</u>

5. Land Observations, as "Yes" or "No", for reporting month:

<u>Visual Observations</u>	<u>Effluent</u>	<u>Receiving Water</u>
Floating and Suspended Materials of Waste Origin	<u>No</u>	<u>No</u>
Odor	<u>No</u>	<u>No</u>
Discoloration and Turbidity	Not Required	<u>No</u>
Evidence of Beneficial Water Use	Not Required	<u>No</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Kewagon C. Date: 09-30-2008

Self-Monitoring Report

LLNL Mini Treatment Unit 1 (MTU1)

AREA TFC-E

1. Reporting Period: Business Month July Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

July	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-413	0	0.0
W-368	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>0</u>

6. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **07-31-2008**

Self-Monitoring Report
LLNL Mini Treatment Unit 1 (MTU1)
AREA TFC-E

1. Reporting Period: Business Month August Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-413	0	0.0
W-368	0	0.0
Total:	<u>0</u>	<u>0.0</u>

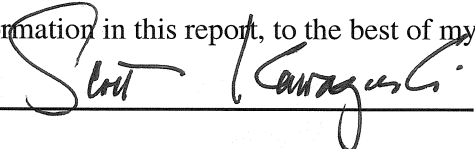
5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>0</u>

6. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 09-02-2008

Self-Monitoring Report
LLNL Mini Treatment Unit 1 (MTU1)
AREA TFC-E

1. Reporting Period: Business Month September Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August	30	31													
September	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-413	0	0.0
W-368	0	0.0
Total:	<u>0</u>	<u>0.0</u>

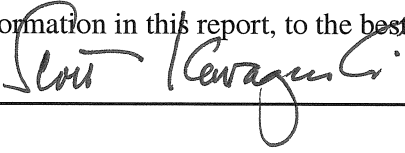
5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>0</u>

6. Comments:

This treatment facility was shut down on 2-27-08 due to a FY 2008 funding reduction. Facilities will be restarted in a prioritized order, pending available staff and resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **10-09-2008**

Self-Monitoring Report
LLNL Portable Treatment Unit 1 (PTU1)
AREA TFC-SE

1. Reporting Period: Business Month July Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

July	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30 31

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1213	0	0.0
W-2201	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>0</u>

6. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Shirley Cowan Date: 07-31-2008

Self-Monitoring Report

LLNL Portable Treatment Unit 1 (PTU1)

AREA TFC-SE

1. Reporting Period: Business Month August Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1213	0	0.0
W-2201	0	0.0
Total:	<u>0</u>	<u>0.0</u>

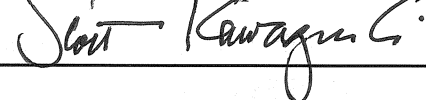
5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>0</u>

6. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 09-02-2008

Self-Monitoring Report
LLNL Portable Treatment Unit 1 (PTU1)
AREA TFC-SE

1. Reporting Period: Business Month September Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August	30	31													
September	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1213	0	0.0
W-2201	0	0.0
Total:	<u>0</u>	<u>0.0</u>

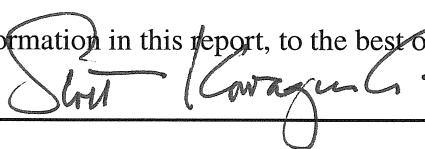
5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>0</u>

6. Comments:

This treatment facility was shut down on 5-9-08 due to a FY 2008 funding reduction. Facilities will be restarted in a prioritized order, pending available staff and resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **10-09-2008**

Self-Monitoring Report

LLNL Treatment Facility D (TFD)

AREA TFD

1. Reporting Period: Business Month July Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

July 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): 611

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 07-07-2008
 Influent pH: 7.5
 Effluent pH: 7.5
 Effluent Temperature (°C): 21.7

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-653	5,400	0.0
W-351	0	0.0
W-907-2	398,600	11.1
W-906	0	0.0
W-1206	468,100	12.9
W-1208	831,100	22.9
W-2102	0	0.0
W-2011	0	0.0
W-2101	0	0.0
Total:	<u>1,703,200</u>	<u>46.9</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>1,703,200</u>

6. Comments:

Facility secured on 7-25-08 for air stripper descaling and blower/discharge pump changeout/maintenance.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Kawaguchi Date: 07-31-2008

Self-Monitoring Report

LLNL Treatment Facility D (TFD)

AREA TFD

1. Reporting Period: Business Month August Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-653	0	0.0
W-351	0	0.0
W-907-2	0	0.0
W-906	0	0.0
W-1206	0	0.0
W-1208	0	0.0
W-2102	0	0.0
W-2011	0	0.0
W-2101	0	0.0
<hr/>		
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>0</u>

6. Comments:

Facility down for maintenance.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Shirley Kawaguchi Date: 09-02-2008

Self-Monitoring Report

LLNL Treatment Facility D (TFD)

AREA TFD

1. Reporting Period: Business Month September Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August	30	31																		
September	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15					
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30					

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-653	0	0.0
W-351	0	0.0
W-907-2	0	0.0
W-906	0	0.0
W-1206	0	0.0
W-1208	0	0.0
W-2102	0	0.0
W-2011	0	0.0
W-2101	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>0</u>

6. Comments:

This treatment facility was shut down on 7-25-08 due to a FY 2008 funding reduction. Facilities will be restarted in a prioritized order, pending available staff and resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Self-Monitoring Report (cont'd)
LLNL Treatment Facility D (TFD)
AREA TFD

Operator Signature: Scott Kawaguchi Date: 10-09-2008

Self-Monitoring Report
LLNL Portable Treatment Unit 8 (PTU8)
AREA TFD-E

1. Reporting Period: Business Month July Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

July 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): 742

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 07-07-2008
Influent pH: 7.5
Effluent pH: 7.5
Effluent Temperature (°C): 24.1

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-2006	1,600	0.0
W-2203	37,600	0.9
W-1255	0	0.0
W-1253	0	0.0
W-1303	36,200	1.0
W-1307	236,600	6.2
W-1404	0	0.0
W-1550	99,200	2.7
W-1301	52,600	1.3
W-1306	10,000	0.3
Total:	<u>473,800</u>	<u>12.4</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>473,800</u>

6. Comments:

Facility down on 7-12-08 due to Snap I/O fault. Restarted on 7-14-08.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 07-31-2008

Self-Monitoring Report

LLNL Portable Treatment Unit 8 (PTU8)

AREA TFD-E

1. Reporting Period: Business Month August Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August **01** **02** 03 **04** **05** **06** **07** **08** **09** 10 **11** **12** **13** **14** **15**
 16 **17** **18** **19** **20** **21** **22** **23** **24** **25** **26** **27** **28** **29**

Total monthly time facility operated (hours): **706**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **08-05-2008**
 Influent pH: **7.5**
 Effluent pH: **8.0**
 Effluent Temperature (°C): **20.4**

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1255	0	0.0
W-1253	0	0.0
W-1307	201,700	6.3
W-1303	31,800	1.1
W-1306	8,700	0.4
W-1404	0	0.0
W-1550	83,900	2.6
W-1301	44,900	1.2
W-2006	1,400	0.0
W-2203	35,200	1.1
Total:	<u>407,600</u>	<u>12.7</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>407,600</u>

6. Comments:

Facility down intermittently throughout month due to Snap I/O fault. The monthly hours of operation reported may exceed the actual hours operated. We are investigating this potential error. However, the dates of operation reported are accurate.

Self-Monitoring Report (cont'd)
LLNL Portable Treatment Unit 8 (PTU8)
AREA TFD-E

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____

Steve Kawaguchi

Date: 09-04-2008

Self-Monitoring Report

LLNL Portable Treatment Unit 8 (PTU8)

AREA TFD-E

1. Reporting Period: Business Month September Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August	30	31																				
September	01	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	06	07	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>							
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>							

Total monthly time facility operated (hours): 691

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>09-08-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>8.0</u>
Effluent Temperature (°C):	<u>19.6</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1255	0	0.0
W-1253	0	0.0
W-1307	224,700	6.4
W-1303	36,900	1.0
W-1306	11,000	0.3
W-1404	0	0.0
W-1550	91,400	2.7
W-1301	45,300	1.1
W-2006	1,200	0.0
W-2203	42,000	1.2
Total:	<u>452,500</u>	<u>12.7</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>452,500</u>

6. Comments:

Facility down on 8-29-08 for unknown reason. Restarted on 9-2-08. Facility down on 9-3-08 due to Snap I/O fault. Restarted on 9-4-08. Facility down on 9-5-08 due to Snap I/O fault. Restarted on 9-8-08. Facility down on 9-24-08 due to Snap I/O fault. Restarted on 9-25-08. The monthly hours of operation reported may exceed

Self-Monitoring Report (cont'd)
LLNL Portable Treatment Unit 8 (PTU8)
AREA TFD-E

the actual hours operated. We are investigating this potential error. However, the dates of operation reported are accurate.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 09-30-2008

Self-Monitoring Report

LLNL Portable Treatment Unit 10 (PTU10)

AREA TFD-HPD

1. Reporting Period: Business Month July Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

July	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1254	0	0.0
W-1653	0	0.0
W-1657	0	0.0
W-1551	0	0.0
W-1654	0	0.0
W-1656	0	0.0
W-1650	0	0.0
W-1652	0	0.0
W-1552	0	0.0
W-1651	0	0.0
W-1655	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>0</u>

6. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Self-Monitoring Report (cont'd)
LLNL Portable Treatment Unit 10 (PTU10)
AREA TFD-HPD

Operator Signature: _____

Scott Kawaguchi

Date: 07-31-2008

Self-Monitoring Report

LLNL Portable Treatment Unit 10 (PTU10)

AREA TFD-HPD

1. Reporting Period: Business Month August Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1254	0	0.0
W-1653	0	0.0
W-1657	0	0.0
W-1551	0	0.0
W-1654	0	0.0
W-1656	0	0.0
W-1650	0	0.0
W-1652	0	0.0
W-1552	0	0.0
W-1651	0	0.0
W-1655	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>0</u>

6. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Self-Monitoring Report (cont'd)
LLNL Portable Treatment Unit 10 (PTU10)
AREA TFD-HPD

Operator Signature: Stuart Lawrence Date: 09-02-2008

Self-Monitoring Report

LLNL Portable Treatment Unit 10 (PTU10)

AREA TFD-HPD

1. Reporting Period: Business Month September Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August	30	31													
September	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1254	0	0.0
W-1653	0	0.0
W-1657	0	0.0
W-1551	0	0.0
W-1654	0	0.0
W-1656	0	0.0
W-1650	0	0.0
W-1652	0	0.0
W-1552	0	0.0
W-1651	0	0.0
W-1655	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>0</u>

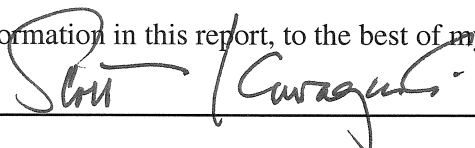
6. Comments:

This treatment facility was shut down on 10-11-07 for a bioremediation pilot test at this location. It has not been restarted due to a FY 2008 funding reduction. Facilities will be restarted in a prioritized order, pending available staff and

Self-Monitoring Report (cont'd)
LLNL Portable Treatment Unit 10 (PTU10)
AREA TFD-HPD

resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 10-09-2008

Self-Monitoring Report
LLNL Portable Treatment Unit 2 (PTU2)
AREA TFD-S

1. Reporting Period: Business Month July Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

July	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
	16	17	18	19	20	21	<u>22</u>	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): 1

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>07-22-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>23.1</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1503	1,400	17.0
W-1510	991	3.2
W-1504	220	2.7
Total:	<u>2,611</u>	<u>22.9</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>2,611</u>

6. Comments:

System secured on 5/7/08 for water level transducer repairs (pending) at wells: W-1503 and W-1510. System operated on 7/22/08 to collect monthly samples and readings.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **08-04-2008**

Self-Monitoring Report
LLNL Portable Treatment Unit 2 (PTU2)
AREA TFD-S

1. Reporting Period: Business Month August Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	<u>22</u>	23	24	25	26	27	28	29	

Total monthly time facility operated (hours): 2

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>08-22-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.0</u>
Effluent Temperature (°C):	<u>23.4</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1503	2,000	17.0
W-1510	368	3.2
W-1504	343	2.9
Total:	<u>2,711</u>	<u>23.1</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>2,711</u>

6. Comments:

System secured on 5/7/08 for water level transducer repairs (pending) at wells: W-1503 and W-1510. System operated on 8/22/08 to collect monthly samples and readings.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **09-03-2008**

Self-Monitoring Report
LLNL Portable Treatment Unit 2 (PTU2)
AREA TFD-S

1. Reporting Period: Business Month September Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August	30	31																												
September	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	<u>24</u>	25	26	27	28	29	30

Total monthly time facility operated (hours): 1

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>09-24-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>22.5</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1503	912	17.2
W-1510	168	3.2
W-1504	163	3.1
Total:	<u>1,243</u>	<u>23.5</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>1,243</u>

6. Comments:

System secured on 5/7/08 for water level transducer repairs, pending at wells:
W-1503 and W-1510. System operated on 9/24/08 to collect monthly samples and
readings.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **10-02-2008**

Self-Monitoring Report
LLNL Portable Treatment Unit 11 (PTU11)
AREA TFD-SE

1. Reporting Period: Business Month July Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

July **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** **12** **13** **14** **15**
16 **17** **18** **19** **20** **21** **22** **23** **24** **25** **26** **27** **28** **29** **30** **31**

Total monthly time facility operated (hours): 753

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 07-02-2008

Influent pH: 7.5

Effluent pH: 8.0

Effluent Temperature (°C): 22.8

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-314	0	0.0
W-1403	10,955	6.6
W-1308	145,131	3.3
W-1904	0	0.0
W-2005	48,521	0.8
SIP-ETC-201	0	0.0
Total:	<u>204,607</u>	<u>10.7</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>204,607</u>

6. Comments:

W-1403 secured on 7-2-08 due to questionable accumulator reading.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Steve Kusager Date: 07-31-2008

Self-Monitoring Report
LLNL Portable Treatment Unit 11 (PTU11)
AREA TFD-SE

1. Reporting Period: Business Month August Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** **12** **13** **14** **15**
 16 **17** **18** **19** **20** **21** **22** **23** **24** **25** **26** **27** **28** **29**

Total monthly time facility operated (hours): **702**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **08-05-2008**
Influent pH: **7.0**
Effluent pH: **8.0**
Effluent Temperature (°C): **19.3**

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-314	0	0.0
W-1403	0	0.0
W-1308	136,236	3.2
W-1904	0	0.0
W-2005	55,277	0.9
SIP-ETC-201	0	0.0
Total:	<u>191,513</u>	<u>4.2</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>191,513</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **08-29-2008**

Self-Monitoring Report

LLNL Portable Treatment Unit 11 (PTU11)

AREA TFD-SE

1. Reporting Period: Business Month September Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August	<u>30</u>	<u>31</u>																		
September	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	13	14	<u>15</u>					
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>					

Total monthly time facility operated (hours): 676

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>09-08-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>8.0</u>
Effluent Temperature (°C):	<u>19.8</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-314	0	0.0
W-1403	0	0.0
W-1308	143,787	3.3
W-1904	0	0.0
W-2005	67,283	1.8
SIP-ETC-201	0	0.0
Total:	<u>211,070</u>	<u>5.1</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>211,070</u>

6. Comments:

Facility down 9-12-08 due to power failure. Facility restarted on 9-15-08. System down intermittently from 9-16-08 through 9-18-08 due to low flow.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 09-30-2008

Self-Monitoring Report
LLNL Portable Treatment Unit 12 (PTU12)
AREA TFD-SS

1. Reporting Period: Business Month July Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

July 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): 757

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 07-16-2008
Influent pH: 7.5
Effluent pH: 7.5
Effluent Temperature (°C): 21.9

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1523	385,260	8.6
W-1603	225,077	0.0
W-1602	112,735	4.7
W-1601	49,165	1.1
Total:	<u>772,237</u>	<u>14.4</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>772,237</u>

6. Comments:

W-1603 shut down, secure pending electronic evaluation.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 08-04-2008

Self-Monitoring Report
LLNL Portable Treatment Unit 12 (PTU12)
AREA TFD-SS

1. Reporting Period: Business Month August Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): 700

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 08-08-2008
Influent pH: 7.5
Effluent pH: 7.5
Effluent Temperature (°C): 21.4

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1523	347,755	8.4
W-1603	0	0.0
W-1602	203,245	4.8
W-1601	46,512	1.3
Total:	<u>597,512</u>	<u>14.5</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>597,512</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 09-03-2008

Self-Monitoring Report
LLNL Portable Treatment Unit 12 (PTU12)
AREA TFD-SS

1. Reporting Period: Business Month September Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August	<u>30</u>	<u>31</u>																											
September	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>														
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>														

Total monthly time facility operated (hours): 778

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>09-10-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>20.9</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1523	385,610	8.2
W-1603	0	0.0
W-1602	223,719	4.9
W-1601	52,918	1.1
Total:	<u>662,247</u>	<u>14.2</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>662,247</u>

6. Comments:

W-1603 shut down, secure pending electronic evaluation.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 10-02-2008

Self-Monitoring Report
LLNL Portable Treatment Unit 6 (PTU6)
AREA TFD-W

1. Reporting Period: Business Month July Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

July **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** **12** **13** **14** **15**
 16 **17** **18** **19** **20** **21** **22** **23** **24** **25** **26** **27** **28** **29** **30** **31**

Total monthly time facility operated (hours): 759

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 07-15-2008
Influent pH: 7.5
Effluent pH: 7.5
Effluent Temperature (°C): 21.3

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1216	184,473	4.0
W-1215	190,886	4.2
W-1902	579,592	12.7
Total:	<u>954,951</u>	<u>20.9</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>954,951</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 08-04-2008

Self-Monitoring Report
LLNL Portable Treatment Unit 6 (PTU6)
AREA TFD-W

1. Reporting Period: Business Month August Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): 608

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 08-08-2008
Influent pH: 7.5
Effluent pH: 7.5
Effluent Temperature (°C): 21.1

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1216	150,028	4.1
W-1215	42,079	0.0
W-1902	445,729	12.5
Total:	<u>637,836</u>	<u>16.6</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>637,836</u>

6. Comments:

System shut down and was secured on 8/25/08 due to electronic (leak detection system) failure. Repairs pending.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 09-02-2008

Self-Monitoring Report
LLNL Portable Treatment Unit 6 (PTU6)
AREA TFD-W

1. Reporting Period: Business Month September Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August	30	31																	
September	01	02	03	04	05	06	07	08	09	10	11	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>				
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>				

Total monthly time facility operated (hours): 444

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>09-24-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>21.1</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1216	125,481	4.7
W-1215	0	0.0
W-1902	451,225	16.9
Total:	<u>576,706</u>	<u>21.6</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>576,706</u>

6. Comments:

W-1215 pump failed on 8-8-08, repairs pending.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 10-02-2008

Self-Monitoring Report
LLNL Vapor Extraction System 11 (VES11)
AREA VTFD-ETCS

1. Reporting Period: Business Month July Year 2008

2. Dates (in **bold** and underline) treatment facility operated

July	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30 31

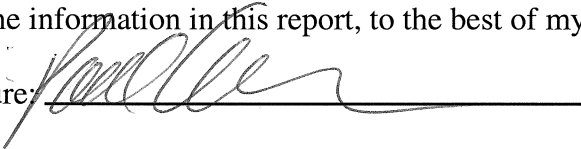
3. Wellfield Data:

<u>Source</u>	<u>Monthly</u> <u>Volume(cu. ft)</u>	<u>Instantaneous</u> <u>Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours</u> <u>of Op.</u>
W-1904	0	0.0	0	0	0
W-ETC-2004B	0	0.0	0	0	0
W-ETC-2004A	0	0.0	0	0	0
W-ETC-2003	0	0.0	0	0	0
SIP-ETC-201	0	0.0	0	0	0
Total:	<u>0</u>	<u>0.0</u>			

4. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **08-04-2008**

Self-Monitoring Report

LLNL Vapor Extraction System 11 (VES11)

AREA VTFD-ETCS

1. Reporting Period: Business Month August Year 2008

2. Dates (in **bold** and underline) treatment facility operated

August	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	

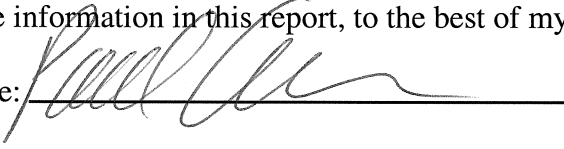
3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-1904	0	0.0	0	0	0
W-ETC-2004B	0	0.0	0	0	0
W-ETC-2004A	0	0.0	0	0	0
W-ETC-2003	0	0.0	0	0	0
SIP-ETC-201	0	0.0	0	0	0
<hr/>					
Total:	<u>0</u>	<u>0.0</u>			

4. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **09-02-2008**

Self-Monitoring Report

LLNL Vapor Extraction System 11 (VES11)

AREA VTFD-ETCS

1. Reporting Period: Business Month September Year 2008

2. Dates (in **bold** and underline) treatment facility operated

August	30	31																												
September	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15															
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30															

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-1904	0	0.0	0	0	0
W-ETC-2004B	0	0.0	0	0	0
W-ETC-2004A	0	0.0	0	0	0
W-ETC-2003	0	0.0	0	0	0
SIP-ETC-201	0	0.0	0	0	0
Total:	<u>0</u>	<u>0.0</u>			

4. Comments:

This treatment facility was shut down on 8/12/07. Due to a FY 2008 funding reduction, facilities will be restarted in a prioritized order, pending available staff and resources.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **10-30-2008**

Self-Monitoring Report

LLNL Vapor Extraction System 07 (VES07)

AREA VTFD-HPD

1. Reporting Period: Business Month July Year 2008

2. Dates (in **bold** and underline) treatment facility operated

July	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30 31

3. Wellfield Data:

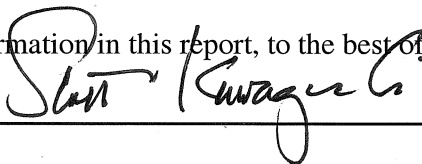
<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-1651	0	0.0	0	0	0
W-1653	0	0.0	0	0	0
W-1657	0	0.0	0	0	0
W-1654	0	0.0	0	0	0
W-1652	0	0.0	0	0	0
W-1552	0	0.0	0	0	0
W-1655	0	0.0	0	0	0
W-1656	0	0.0	0	0	0
W-1650	0	0.0	0	0	0
W-HPA-002A	0	0.0	0	0	0
W-HPA-002B	0	0.0	0	0	0
<hr/>					
Total:	<u>0</u>	<u>0.0</u>			

4. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____



Date: 07-31-2008

Self-Monitoring Report

LLNL Vapor Extraction System 07 (VES07)

AREA VTFD-HPD

1. Reporting Period: Business Month August Year 2008

2. Dates (in **bold** and underline) treatment facility operated

August	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-1651	0	0.0	0	0	0
W-1653	0	0.0	0	0	0
W-1657	0	0.0	0	0	0
W-1654	0	0.0	0	0	0
W-1652	0	0.0	0	0	0
W-1552	0	0.0	0	0	0
W-1655	0	0.0	0	0	0
W-1656	0	0.0	0	0	0
W-1650	0	0.0	0	0	0
W-HPA-002A	0	0.0	0	0	0
W-HPA-002B	0	0.0	0	0	0
Total:	<u>0</u>	<u>0.0</u>			

4. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Kawaguchi Date: 09-02-2008

Self-Monitoring Report

LLNL Vapor Extraction System 07 (VES07)

AREA VTFD-HPD

1. Reporting Period: Business Month September Year 2008

2. Dates (in **bold** and underline) treatment facility operated

August	30	31													
September	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1651	0	0.0	0	0	0
W-1653	0	0.0	0	0	0
W-1657	0	0.0	0	0	0
W-1654	0	0.0	0	0	0
W-1652	0	0.0	0	0	0
W-1552	0	0.0	0	0	0
W-1655	0	0.0	0	0	0
W-1656	0	0.0	0	0	0
W-1650	0	0.0	0	0	0
W-HPA-002A	0	0.0	0	0	0
W-HPA-002B	0	0.0	0	0	0
<hr/>					
Total:	<u>0</u>	<u>0.0</u>			

4. Comments:

This treatment facility was shut down on 10-11-07 for a bioremediation test at this location. It has not been restarted due to a FY 2008 funding reduction. Facilities will be restarted in a prioritized order, pending available staff and resources.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Caravan Date: 10-09-2008

Self-Monitoring Report

LLNL Vapor Extraction System 13 (VES13)

AREA VTFD-HS

1. Reporting Period: Business Month July Year 2008

2. Dates (in **bold** and underline) treatment facility operated

July	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

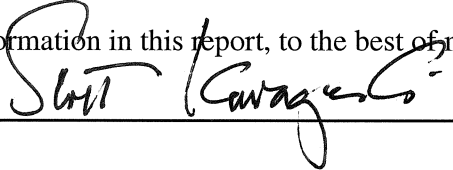
3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-653	0	0.0	0	0	0
W-2102	0	0.0	0	0	0
W-2011	0	0.0	0	0	0
W-2101	0	0.0	0	0	0
<hr/>					
Total:	<u>0</u>	<u>0.0</u>			

4. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 07-31-2008

Self-Monitoring Report

LLNL Vapor Extraction System 13 (VES13)

AREA VTFD-HS

1. Reporting Period: Business Month August Year 2008

2. Dates (in **bold** and underline) treatment facility operated

August	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	

3. Wellfield Data:

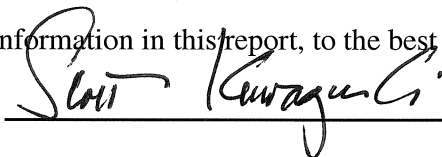
<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-653	0	0.0	0	0	0
W-2102	0	0.0	0	0	0
W-2011	0	0.0	0	0	0
W-2101	0	0.0	0	0	0
<hr/>					
Total:	<u>0</u>	<u>0.0</u>			

4. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____



Date: 09-02-2008

Self-Monitoring Report

LLNL Vapor Extraction System 13 (VES13)

AREA VTFD-HS

1. Reporting Period: Business Month September Year 2008

2. Dates (in **bold** and underline) treatment facility operated

August	30	31																			
September	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15						
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30						

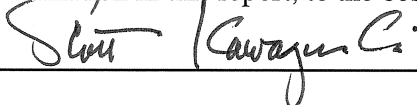
3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-653	0	0.0	0	0	0
W-2102	0	0.0	0	0	0
W-2011	0	0.0	0	0	0
W-2101	0	0.0	0	0	0
Total:	<u>0</u>	<u>0.0</u>			

4. Comments:

This treatment facility was shut down on 6-7-07 due to a failed blower motor. It has not been restarted due to a FY 2008 funding reduction. Facilities will be restarted in a prioritized order, pending available staff and resources.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 10-09-2008

Self-Monitoring Report
LLNL Portable Treatment Unit 3 (PTU3)
AREA TFE-E

1. Reporting Period: Business Month July Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

July	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30 31

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-566	0	0.0
W-1109	0	0.0
W-1903	0	0.0
W-1909	0	0.0
W-2305	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>0</u>

6. Comments:

System shut down and was secured on 6/2/08 due to electronic (PLC) failure.
Repairs pending.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **08-04-2008**

Self-Monitoring Report
LLNL Portable Treatment Unit 3 (PTU3)
AREA TFE-E

1. Reporting Period: Business Month August Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-566	0	0.0
W-1109	0	0.0
W-1903	0	0.0
W-1909	0	0.0
W-2305	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>0</u>

6. Comments:

System shut down and was secured on 6/2/08 due to electronic (PLC) failure.
Repairs pending.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **09-02-2008**

Self-Monitoring Report
LLNL Portable Treatment Unit 3 (PTU3)
AREA TFE-E

1. Reporting Period: Business Month September Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August	30	31													
September	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-566	0	0.0
W-1109	0	0.0
W-1903	0	0.0
W-1909	0	0.0
W-2305	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>0</u>

6. Comments:

System shut down and was secured on 6/2/08 due to electronic (PLC) failure.
Repairs pending.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **10-02-2008**

Self-Monitoring Report
LLNL GAC Treatment Unit 07 (GTU07)
AREA TFE-HS

1. Reporting Period: Business Month July Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

July	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-2105	0	0.0
W-2012	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>0</u>

6. Comments:

System secured 6/10/08 due to concerns regarding W-2012 pump cycling on and off.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **08-04-2008**

Self-Monitoring Report
LLNL GAC Treatment Unit 07 (GTU07)
AREA TFE-HS

1. Reporting Period: Business Month August Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-2105	0	0.0
W-2012	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>0</u>

6. Comments:

System secured 6/10/08 due to concerns regarding W-2012 pump cycling on and off.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **09-02-2008**

Self-Monitoring Report
LLNL GAC Treatment Unit 07 (GTU07)
AREA TFE-HS

1. Reporting Period: Business Month September Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August	30	31																	
September	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15				
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30				

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-2105	0	0.0
W-2012	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>0</u>

6. Comments:

System secured 6/10/08 due to concerns regarding W-2012 pump cycling on and off.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **10-02-2008**

Self-Monitoring Report
LLNL Portable Treatment Unit 9 (PTU9)
AREA TFE-NW

1. Reporting Period: Business Month July Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

July 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): 761

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 07-15-2008
Influent pH: 7.5
Effluent pH: 7.5
Effluent Temperature (°C): 21

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1211	875,367	19.4
W-1409	0	0.0
Total:	<u>875,367</u>	<u>19.4</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>875,367</u>

6. Comments:

W-1409 well pump failed on 5/6/08, repairs pending.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 08-04-2008

Self-Monitoring Report
LLNL Portable Treatment Unit 9 (PTU9)
AREA TFE-NW

1. Reporting Period: Business Month August Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): 703

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 08-08-2008
Influent pH: 7.5
Effluent pH: 7.5
Effluent Temperature (°C): 21.5

4. Wellfield Data:

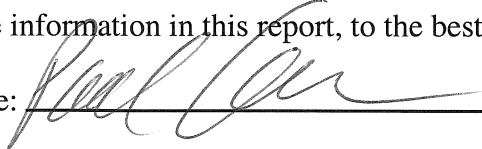
<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1211	812,675	19.5
W-1409	0	0.0
Total:	<u>812,675</u>	<u>19.5</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>812,675</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 09-02-2008

Operator Signature: [Signature] Date: **10-02-2008**

Self-Monitoring Report
LLNL Mini Treatment Unit 04 (MTU04)
AREA TFE-SE

1. Reporting Period: Business Month July Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

July	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-359	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>0</u>

6. Comments:

Facility failed on 4/2/08 due to a failure of the down hole pump in W-359. The pump has not been replaced and the facility has not operated since 4/2/08. This facility will be restarted once the pump is replaced. The facility did not operate in the month of July.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **08-04-2008**

Self-Monitoring Report
LLNL Mini Treatment Unit 04 (MTU04)
AREA TFE-SE

1. Reporting Period: Business Month August Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-359	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>0</u>

6. Comments:

Facility failed on 4/2/08 due to a failure of the down hole pump in W-359. The pump has not been replaced and the facility has not operated since 4/2/08. The facility will be restarted once the pump is replaced and the facility is ready for a restart. Facility did not operate in the month of August.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **09-02-2008**

Self-Monitoring Report
LLNL Mini Treatment Unit 04 (MTU04)
AREA TFE-SE

1. Reporting Period: Business Month September Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August	30	31																												
September	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-359	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>0</u>

6. Comments:

Facility failed on 4/2/08 due to a failure of the down hole pump in W-359. The pump has not been replaced and the facility has not operated since 4/2/08. The facility will be restarted once the pump is replaced and the facility is ready for a restart. Facility did not operate in the month of September.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **10-01-2008**

Self-Monitoring Report
LLNL Mini Treatment Unit 03 (MTU03)
AREA TFE-SW

1. Reporting Period: Business Month July Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

July **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** **12** **13** **14** **15**
16 **17** **18** **19** **20** **21** **22** **23** **24** **25** **26** **27** **28** **29** **30** **31**

Total monthly time facility operated (hours): **741**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **07-01-2008**
Influent pH: **7.0**
Effluent pH: **7.5**
Effluent Temperature (°C): **19.6**

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1520	0	0.0
W-1518	78,877	1.8
W-1522	61,459	1.4
Total:	<u>140,336</u>	<u>3.2</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>140,336</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **08-05-2008**

Self-Monitoring Report
LLNL Mini Treatment Unit 03 (MTU03)
AREA TFE-SW

1. Reporting Period: Business Month August Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** **12** **13** **14** **15**
 16 **17** **18** **19** **20** **21** **22** **23** **24** **25** **26** **27** **28** **29**

Total monthly time facility operated (hours): **693**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **08-01-2008**
Influent pH: **7.5**
Effluent pH: **7.5**
Effluent Temperature (°C): **21.7**

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1520	0	0.0
W-1518	71,696	1.8
W-1522	56,829	1.4
Total:	<u>128,525</u>	<u>3.2</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>128,525</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **09-02-2008**

Self-Monitoring Report
LLNL Mini Treatment Unit 03 (MTU03)
AREA TFE-SW

1. Reporting Period: Business Month September Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August 30 31
September 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Total monthly time facility operated (hours): 770

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 09-10-2008
Influent pH: 7.0
Effluent pH: 7.5
Effluent Temperature (°C): 19.2

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1520	0	0.0
W-1518	11,397	0.0
W-1522	61,026	1.3
Total:	<u>72,423</u>	<u>1.3</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>72,423</u>

6. Comments:

W-1518 was discovered non operational on 9/8/08. Unable to restart pump.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Benjamin J. Johnson Date: 10-01-2008

Self-Monitoring Report
LLNL Mini Treatment Unit 05 (MTU05)
AREA TFE-W

1. Reporting Period: Business Month July Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

July 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): 741

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 07-01-2008
Influent pH: 7.5
Effluent pH: 7.0
Effluent Temperature (°C): 21.3

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-292	270,757	6.1
W-305	407,136	9.2
Total:	<u>677,893</u>	<u>15.3</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>677,893</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 08-04-2008

Self-Monitoring Report
LLNL Mini Treatment Unit 05 (MTU05)
AREA TFE-W

1. Reporting Period: Business Month August Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): 645

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 08-01-2008
Influent pH: 7.0
Effluent pH: 7.5
Effluent Temperature (°C): 19.6

4. Wellfield Data:

<u>Source</u>	<u>Monthly</u> <u>Volume(gal)</u>	<u>Instantaneous</u> <u>Flow Rate(gpm)</u>
W-305	350,649	9.2
W-292	241,077	6.0
Total:	<u>591,726</u>	<u>15.2</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving</u> <u>Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>591,726</u>

6. Comments:

Due to construction activities in the area- Electrical power to MTU05 was not available from the morning of 8/28 to the morning of 8/29.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 09-02-2008

Self-Monitoring Report
LLNL Mini Treatment Unit 05 (MTU05)
AREA TFE-W

1. Reporting Period: Business Month September Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August 30 31
September 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Total monthly time facility operated (hours): 769

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 09-10-2008
Influent pH: 7.0
Effluent pH: 7.5
Effluent Temperature (°C): 20.6

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-305	407,067	8.8
W-292	285,340	6.2
Total:	<u>692,407</u>	<u>15.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>692,407</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 10-01-2008

Self-Monitoring Report

LLNL Vapor Extraction System 16 (VES16)

AREA VTFE-ELM

1. Reporting Period: Business Month July Year 2008

2. Dates (in **bold** and underline) treatment facility operated

July	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-1909	0	0.0	0	0	0
W-1903	0	0.0	0	0	0
W-2305	0	0.0	0	0	0
W-543-003	0	0.0	0	0	0
W-543-001	0	0.0	0	0	0
W-543-1908	0	0.0	0	0	0
<hr/>					
Total:	<u>0</u>	<u>0.0</u>			

4. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **08-04-2008**

Self-Monitoring Report

LLNL Vapor Extraction System 16 (VES16)

AREA VTFE-ELM

1. Reporting Period: Business Month August Year 2008

2. Dates (in **bold** and underline) treatment facility operated

August	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-1909	0	0.0	0	0	0
W-1903	0	0.0	0	0	0
W-2305	0	0.0	0	0	0
W-543-003	0	0.0	0	0	0
W-543-001	0	0.0	0	0	0
W-543-1908	0	0.0	0	0	0
<hr/>					
Total:	<u>0</u>	<u>0.0</u>			

4. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 09-03-2008

Self-Monitoring Report

LLNL Vapor Extraction System 16 (VES16)

AREA VTFE-ELM

1. Reporting Period: Business Month September Year 2008

2. Dates (in **bold** and underline) treatment facility operated

August	30	31																												
September	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15															
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30															

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-1909	0	0.0	0	0	0
W-1903	0	0.0	0	0	0
W-2305	0	0.0	0	0	0
W-543-003	0	0.0	0	0	0
W-543-001	0	0.0	0	0	0
W-543-1908	0	0.0	0	0	0
Total:	<u>0</u>	<u>0.0</u>			

4. Comments:

This treatment facility was shut down on 2/06/08. Due to a FY 2008 funding reduction, facilities will be restarted in a prioritized order, pending available staff and resources.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **10-30-2008**

Self-Monitoring Report

LLNL Vapor Extraction System 12 (VES12)

AREA VTFF-HS

1. Reporting Period: Business Month July Year 2008

2. Dates (in **bold** and underline) treatment facility operated

July	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

3. Wellfield Data:

<u>Source</u>	<u>Monthly</u> <u>Volume(cu. ft)</u>	<u>Instantaneous</u> <u>Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours</u> <u>of Op.</u>
W-ETS-2010B	0	0.0	0	0	0
W-ETS-2010A	0	0.0	0	0	0
W-ETS-2009	0	0.0	0	0	0
W-ETS-2008A	0	0.0	0	0	0
W-ETS-2008B	0	0.0	0	0	0
W-2105	0	0.0	0	0	0
Total:	<u>0</u>	<u>0.0</u>			

4. Comments:

Facility did not operate in the month of July 2008. Facility failed on 3/10/08 due to a catastrophic motor failure in the liquid ring vacuum pump. Facility will not be restarted due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 08-04-2008

Self-Monitoring Report

LLNL Vapor Extraction System 12 (VES12)

AREA VTFF-HS

1. Reporting Period: Business Month August Year 2008

2. Dates (in **bold** and underline) treatment facility operated

August	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-ETS-2010B	0	0.0	0	0	0
W-ETS-2010A	0	0.0	0	0	0
W-ETS-2009	0	0.0	0	0	0
W-ETS-2008A	0	0.0	0	0	0
W-ETS-2008B	0	0.0	0	0	0
W-2105	0	0.0	0	0	0
<hr/>					
Total:	<u>0</u>	<u>0.0</u>			

4. Comments:

Facility did not operate in the month of August 2008. Facility failed on 3/10/08 due to a catastrophic motor failure in the liquid ring vacuum pump. Facility will not be restarted due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____

Date: 09-02-2008

Self-Monitoring Report

LLNL Vapor Extraction System 12 (VES12)

AREA VTFE-HS

1. Reporting Period: Business Month September Year 2008

2. Dates (in **bold** and underline) treatment facility operated

August	30	31																								
September	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15											
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30											

3. Wellfield Data:

<u>Source</u>	<u>Monthly</u> <u>Volume(cu. ft)</u>	<u>Instantaneous</u> <u>Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours</u> <u>of Op.</u>
W-ETS-2010B	0	0.0	0	0	0
W-ETS-2010A	0	0.0	0	0	0
W-ETS-2009	0	0.0	0	0	0
W-ETS-2008A	0	0.0	0	0	0
W-ETS-2008B	0	0.0	0	0	0
W-2105	0	0.0	0	0	0
<hr/>					
Total:	<u>0</u>	<u>0.0</u>			

4. Comments:

Facility did not operate in the month of Sept. 2008. Facility failed on 3/10/08 due to a catastrophic motor failure in the liquid ring vacuum pump. DOE and the regulatory agencies were notified of this action.

5. I certify that the information in this report to the best of my knowledge, is true and correct.

Operator Signature:  Date: 10-01-2008

Self-Monitoring Report
LLNL GAC Treatment Unit 01 (GTU01)
AREA TFG-1

1. Reporting Period: Business Month July Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

July 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): 746

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 07-15-2008
Influent pH: 7.0
Effluent pH: 7.0
Effluent Temperature (°C): 18.8

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1111	397,206	8.8
Total:	<u>397,206</u>	<u>8.8</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Seco</u>	<u>TFG-ASW</u>	<u>397,206</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **08-04-2008**

Self-Monitoring Report
LLNL GAC Treatment Unit 01 (GTU01)
AREA TFG-1

1. Reporting Period: Business Month August Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): 690

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 08-08-2008
Influent pH: 7.0
Effluent pH: 7.0
Effluent Temperature (°C): 18.8

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1111	367,566	8.8
Total:	<u>367,566</u>	<u>8.8</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Seco</u>	<u>TFG-ASW</u>	<u>367,566</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 09-03-2008

Operator Signature: [Signature] Date: **10-02-2008**

Land Observation Report date:
TFG-ASW - Arroyo Seco

1. Reporting Period: Business Month July Year 2008

2. Date compliance sampling performed 07-15-2008

3. Weather Conditions:

Average air tempertaure (°C):	<u>21.5</u>
6-day total precipitation (in):	<u>0</u>
Average wind speed/direction (mph):	<u>6/ SW</u>

4. Receiving Data:

<u>Sample</u> <u>Location</u>	<u>pH</u>	<u>Temperature (C)</u>
<u>Receiving Water</u>	<u>N/M</u>	<u>N/M</u>

5. Land Observations, as "Yes" or "No", for reporting month:

<u>Visual Observations</u>	<u>Effluent</u>	<u>Receiving Water</u>
Floating and Suspended Materials of Waste Origin	<u>No</u>	<u>No</u>
Odor	<u>No</u>	<u>No</u>
Discoloration and Turbidity	Not Required	<u>No</u>
Evidence of Beneficial Water Use	Not Required	<u>N/A</u>

6. Comments:

No water at sampling location, semi-annual sampling delayed until flow restored.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 08-04-2008

**Land Observation Report date:
TFG-ASW - Arroyo Seco**

1. Reporting Period: Business Month August Year 2008

2. Date compliance sampling performed 08-08-2008

3. Weather Conditions:

Average air tempertaure (°C):	<u>18.2</u>
6-day total precipitation (in):	<u>0</u>
Average wind speed/direction (mph):	<u>6/ SW</u>

4. Receiving Data:

Sample Location	pH	Temperature (C)
<u>Receiving Water</u>	<u>N/M</u>	<u>N/M</u>

5. Land Observations, as "Yes" or "No", for reporting month:

<u>Visual Observations</u>	<u>Effluent</u>	<u>Receiving Water</u>
Floating and Suspended Materials of Waste Origin	<u>No</u>	<u>No</u>
Odor	<u>No</u>	<u>No</u>
Discoloration and Turbidity	Not Required	<u>No</u>
Evidence of Beneficial Water Use	Not Required	<u>N/A</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 09-03-2008

Land Observation Report date:
TFG-ASW - Arroyo Seco

1. Reporting Period: Business Month September Year 2008

2. Date compliance sampling performed 09-10-2008

3. Weather Conditions:

Average air tempertaure (°C):	<u>22.2</u>
6-day total precipitation (in):	<u>0</u>
Average wind speed/direction (mph):	<u>4/ SSW</u>

4. Receiving Data:

Sample		
<u>Location</u>	<u>pH</u>	<u>Temperature (C)</u>
<u>Receiving Water</u>	<u>N/M</u>	<u>N/M</u>

5. Land Observations, as "Yes" or "No", for reporting month:

<u>Visual Observations</u>	<u>Effluent</u>	<u>Receiving Water</u>
Floating and Suspended Materials of Waste Origin	<u>No</u>	<u>No</u>
Odor	<u>No</u>	<u>No</u>
Discoloration and Turbidity	Not Required	<u>No</u>
Evidence of Beneficial Water Use	Not Required	<u>N/A</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature  Date: 10-02-2008

Self-Monitoring Report
LLNL Mini Treatment Unit 02 (MTU02)
AREA TFG-N

1. Reporting Period: Business Month July Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

July	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1807	0	0.0
W-1806	0	0.0
Total:	<u>0</u>	<u>0.0</u>

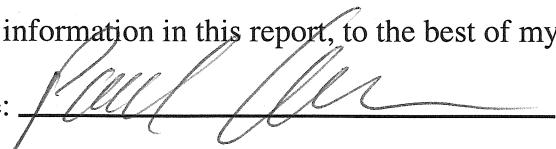
5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>0</u>

6. Comments:

System shut down on 6/20/08 due to high sump alarm. System secure pending electronic evaluation.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **08-04-2008**

Self-Monitoring Report
LLNL Mini Treatment Unit 02 (MTU02)
AREA TFG-N

1. Reporting Period: Business Month August Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1807	0	0.0
W-1806	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>0</u>

6. Comments:

System shut down on 6/20/08 due to high sump alarm. System secure pending electronic evaluation.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **09-03-2008**

Self-Monitoring Report
LLNL Mini Treatment Unit 02 (MTU02)
AREA TFG-N

1. Reporting Period: Business Month September Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August	30	31															
September	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15		
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1807	0	0.0
W-1806	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>0</u>

6. Comments:

System shut down on 6/20/08 due to high sump alarm. System secure pending repairs.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **10-02-2008**

Self-Monitoring Report
LLNL Portable Treatment Unit 5 (PTU5)
AREA TF406

1. Reporting Period: Business Month July Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

July	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1309	0	0.0
W-1310	0	0.0
GSW-445	0	0.0
Total:	<u>0</u>	<u>0.0</u>

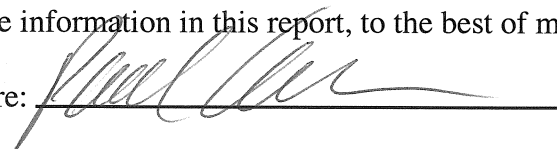
5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>0</u>

6. Comments:

System shut down on 3/17/08 due to well pump failure in W-1310. Daily operations of system to remain secure until well pump repairs to W-1310 can be facilitated.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **08-04-2008**

Self-Monitoring Report
LLNL Portable Treatment Unit 5 (PTU5)
AREA TF406

1. Reporting Period: Business Month August Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1309	0	0.0
W-1310	0	0.0
GSW-445	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>0</u>

6. Comments:

System shut down on 3/17/08 due to well pump failure in W-1310. Daily operations of system to remain secure until well pump repairs to W-1310 can be facilitated.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **09-03-2008**

Self-Monitoring Report
LLNL Portable Treatment Unit 5 (PTU5)
AREA TF406

1. Reporting Period: Business Month September Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August	30	31													
September	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1309	0	0.0
W-1310	0	0.0
GSW-445	0	0.0
Total:	<u>0</u>	<u>0.0</u>

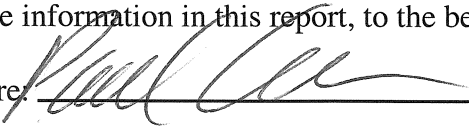
5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>0</u>

6. Comments:

System shut down on 3/17/08 due to well pump failure in W-1310. Daily operations of system to remain secure until well pump repairs to W-1310 can be facilitated.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: 

Date: **10-02-2008**

Self-Monitoring Report
LLNL GAC Treatment Unit 03 (GTU03)
AREA TF406-NW

1. Reporting Period: Business Month July Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

July	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30 31

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1801	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>0</u>

6. Comments:

System secure pending well W-1801 pump repairs.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: 

Date: 08-04-2008

Self-Monitoring Report
LLNL GAC Treatment Unit 03 (GTU03)
AREA TF406-NW

1. Reporting Period: Business Month August Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1801	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>0</u>

6. Comments:

System secure pending well W-1801 pump repairs.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: 

Date: **09-18-2008**

Self-Monitoring Report
LLNL GAC Treatment Unit 03 (GTU03)
AREA TF406-NW

1. Reporting Period: Business Month September Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August	30	31															
September	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15		
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1801	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>0</u>

6. Comments:

System secure pending well W-1801 pump repairs.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **10-02-2008**

Self-Monitoring Report
LLNL Solar Treatment Unit 09 (STU09)
AREA TF518-N

1. Reporting Period: Business Month July Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

July	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1410	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>0</u>

6. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Steve K. Gargan

Date: 07-31-2008

Self-Monitoring Report
LLNL Solar Treatment Unit 09 (STU09)
AREA TF518-N

1. Reporting Period: Business Month August Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1410	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>0</u>

6. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **09-02-2008**

Self-Monitoring Report
LLNL Solar Treatment Unit 09 (STU09)
AREA TF518-N

1. Reporting Period: Business Month September Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August	30	31													
September	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1410	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>0</u>

6. Comments:

This treatment facility was shut down on 2-20-08 due to a FY 2008 funding reduction. Facilities will be restarted in a prioritized order, pending available staff and resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **10-09-2008**

Self-Monitoring Report
LLNL Treatment Facility 518-HDTANK (TF518-HDTANK)
AREA TF518-PZ

1. Reporting Period: Business Month July Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

July	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1615	0	0.0
W-518-1913	0	0.0
W-518-1914	0	0.0
W-518-1915	0	0.0
SVB-518-204	0	0.0
SVB-518-201	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>0</u>

6. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 07-31-2008

Self-Monitoring Report
LLNL Treatment Facility 518-HDTANK (TF518-HDTANK)
AREA TF518-PZ

1. Reporting Period: Business Month August Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1615	0	0.0
W-518-1913	0	0.0
W-518-1914	0	0.0
W-518-1915	0	0.0
SVB-518-204	0	0.0
SVB-518-201	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>0</u>

6. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 09-02-2008

Self-Monitoring Report
LLNL Treatment Facility 518-HDTANK (TF518-HDTANK)
AREA TF518-PZ

1. Reporting Period: Business Month September Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August	30	31													
September	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1615	0	0.0
W-518-1913	0	0.0
W-518-1914	0	0.0
W-518-1915	0	0.0
SVB-518-204	0	0.0
SVB-518-201	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>0</u>

6. Comments:

This treatment facility was shut down on 2-27-08 due to a FY 2008 funding reduction. Facilities will be restarted in a prioritized order, pending available staff and resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 10-09-2008

Self-Monitoring Report
LLNL Catalytic Reductive Dehalogenation 1 (CRD1)
AREA TF5475-1

1. Reporting Period: Business Month July Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

July	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1302-2	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>CRD-1 injection</u>	<u>W-1302-1</u>	<u>0</u>

6. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 08-04-2008

Self-Monitoring Report
LLNL Catalytic Reductive Dehalogenation 1 (CRD1)
AREA TF5475-1

1. Reporting Period: Business Month August Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1302-2	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>CRD-1 injection</u>	<u>W-1302-1</u>	<u>0</u>

6. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 09-02-2008

Self-Monitoring Report
LLNL Catalytic Reductive Dehalogenation 1 (CRD1)
AREA TF5475-1

1. Reporting Period: Business Month September Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August	30	31													
September	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1302-2	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>CRD-1 injection</u>	<u>W-1302-1</u>	<u>0</u>

6. Comments:

This treatment facility was shut down on 7/27/07. Due to a FY 2008 funding reduction, facilities will be restarted in a prioritized order, pending available staff and resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 10-30-2008

Self-Monitoring Report
LLNL GAC Treatment Unit 09 (GTU09)
AREA TF5475-2

1. Reporting Period: Business Month July Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

July	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30 31

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1108	0	0.0
W-1415	0	0.0
Total:	<u>0</u>	<u>0.0</u>

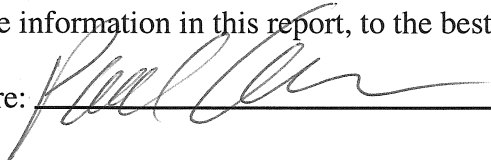
5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>0</u>

6. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **08-04-2008**

Self-Monitoring Report
LLNL GAC Treatment Unit 09 (GTU09)
AREA TF5475-2

1. Reporting Period: Business Month August Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1108	0	0.0
W-1415	0	0.0
Total:	<u>0</u>	<u>0.0</u>

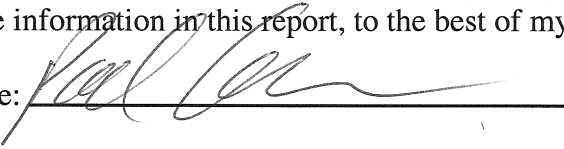
5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>0</u>

6. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **09-18-2008**

Self-Monitoring Report
LLNL GAC Treatment Unit 09 (GTU09)
AREA TF5475-2

1. Reporting Period: Business Month September Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August	30	31															
September	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15		
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1108	0	0.0
W-1415	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>0</u>

6. Comments:

This treatment facility was shut down on 2/27/08. Due to a FY 2008 funding reduction, facilities will be restarted in a prioritized order, pending available staff and resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **10-30-2008**

Self-Monitoring Report
LLNL Catalytic Reductive Dehalogenation 2 (CRD2)
AREA TF5475-3

1. Reporting Period: Business Month July Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

July	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1608	0	0.0
W-1605	0	0.0
W-1604	0	0.0
W-1609	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>CRD-2 injection</u>	<u>W-1610</u>	<u>0</u>

6. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **08-04-2008**

Self-Monitoring Report
LLNL Catalytic Reductive Dehalogenation 2 (CRD2)
AREA TF5475-3

1. Reporting Period: Business Month August Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1608	0	0.0
W-1605	0	0.0
W-1604	0	0.0
W-1609	0	0.0
Total:	<u>0</u>	<u>0.0</u>

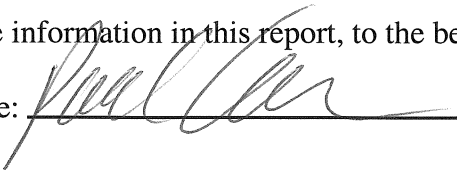
5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>CRD-2 injection</u>	<u>W-1610</u>	<u>0</u>

6. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **09-02-2008**

Self-Monitoring Report
LLNL Catalytic Reductive Dehalogenation 2 (CRD2)
AREA TF5475-3

1. Reporting Period: Business Month September Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

August	30	31													
September	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1608	0	0.0
W-1605	0	0.0
W-1604	0	0.0
W-1609	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>CRD-2 injection</u>	<u>W-1610</u>	<u>0</u>

6. Comments:

This treatment facility was shut down on 8/31/07. Due to a FY 2008 funding reduction, facilities will be restarted in a prioritized order, pending available staff and resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **10-30-2008**

Self-Monitoring Report
LLNL Vapor Extraction System 08 (VES08)
AREA VTF406-HS

1. Reporting Period: Business Month July Year 2008

2. Dates (in **bold** and underline) treatment facility operated

July	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

3. Wellfield Data:

<u>Source</u>	<u>Monthly</u> <u>Volume(cu. ft)</u>	<u>Instantaneous</u> <u>Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours</u> <u>of Op.</u>
W-217	0	0.0	0	0	0
W-514-2007A	0	0.0	0	0	0
W-514-2007B	0	0.0	0	0	0
Total:	<u>0</u>	<u>0.0</u>			

4. Comments:

"A data review conducted in late June indicates that recent flow totals for this facility are suspect. The facility was shutdown on 6/26 and will remain down until issues with the flow totals are resolved".

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 08-04-2008

Self-Monitoring Report

LLNL Vapor Extraction System 08 (VES08)

AREA VTF406-HS

1. Reporting Period: Business Month August Year 2008

2. Dates (in **bold** and underline) treatment facility operated

August	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-217	0	0.0	0	0	0
W-514-2007A	0	0.0	0	0	0
W-514-2007B	0	0.0	0	0	0
Total:	<u>0</u>	<u>0.0</u>			

4. Comments:

"A data review conducted in late June indicates that recent flow totals for this facility are suspect. The facility was shutdown on 6/26 and will remain down until issues with the flow totals are resolved". Did not operate in the month of August 2008.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 09-02-2008

Self-Monitoring Report

LLNL Vapor Extraction System 08 (VES08)

AREA VTF406-HS

1. Reporting Period: Business Month September Year 2008

2. Dates (in **bold** and underline) treatment facility operated

August	30	31																												
September	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15															
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30															

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-217	0	0.0	0	0	0
W-514-2007A	0	0.0	0	0	0
W-514-2007B	0	0.0	0	0	0
Total:	<u>0</u>	<u>0.0</u>			

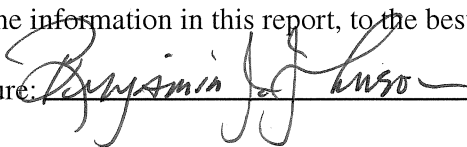
4. Comments:

"A data review conducted in late June indicates that recent flow totals for this facility are suspect. The facility was shutdown on 6/26 and will remain down until issues with the flow totals are resolved". Did not operate in the month of Sept. 2008.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____

Date: 10-01-2008



Self-Monitoring Report

LLNL Vapor Extraction System 14 (VES14)

AREA VTF511

1. Reporting Period: Business Month July Year 2008

2. Dates (in **bold** and underline) treatment facility operated

July **01** **02** **03** **04** **05** **06** **07** **08** 09 10 11 12 13 **14** **15**
 16 **17** **18** **19** **20** **21** **22** **23** **24** **25** **26** **27** **28** **29** **30** **31**

3. Wellfield Data:

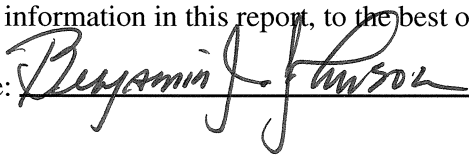
<u>Source</u>	<u>Monthly</u> <u>Volume(cu. ft)</u>	<u>Instantaneous</u> <u>Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours</u> <u>of Op.</u>
W-274	0	0.0	0	0	0
W-2208A	0	0.0	0	0	0
W-2207A	0	0.0	0	0	0
W-2207B	344,412	9.9	-23.14	55	562
W-1517	0	0.0	0	0	0
W-2208B	369,574	10.4	-23.14	55	562
W-2204	0	0.0	0	0	0
W-2206	0	0.0	0	0	0
W-2205	0	0.0	0	0	0
Total:	<u>713,986</u>	<u>20.4</u>			

4. Comments:

Operations suspended on 7-8-08 due to elevated ambient temps. Facility restarted on 7-14-08. Suspended operations on 7-15-08 to replace two spent GAC's. Restarted facility on 7-16-08

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:



Date: 08-04-2008

Self-Monitoring Report

LLNL Vapor Extraction System 14 (VES14)

AREA VTF511

1. Reporting Period: Business Month August Year 2008

2. Dates (in **bold** and underline) treatment facility operated

August 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29

3. Wellfield Data:

<u>Source</u>	<u>Monthly</u> <u>Volume(cu. ft)</u>	<u>Instantaneous</u> <u>Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours</u> <u>of Op.</u>
W-274	0	0.0	0	0	0
W-2208A	0	0.0	0	0	0
W-2207A	0	0.0	0	0	0
W-2207B	222,057	10.0	-22.92	67	361
W-1517	0	0.0	0	0	0
W-2208B	234,180	10.3	-22.92	67	361
W-2204	0	0.0	0	0	0
W-2206	0	0.0	0	0	0
W-2205	0	0.0	0	0	0
Total:	<u>456,237</u>	<u>20.3</u>			

4. Comments:

Facility was discovered non-operational on Mon. 8/18/08 with no available electronic data, no indication of date or time of failure. SMR data is based on log book data collected on Friday 8/15/08. Operational days and totals may need to be revised once the electronic data has been evaluated. Facility is currently non-operational.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 09-09-2008

Self-Monitoring Report

LLNL Vapor Extraction System 14 (VES14)

AREA VTF511

1. Reporting Period: Business Month September Year 2008

2. Dates (in **bold** and underline) treatment facility operated

August	30	31																												
September	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15															
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30															

3. Wellfield Data:

<u>Source</u>	<u>Monthly</u> <u>Volume(cu. ft)</u>	<u>Instantaneous</u> <u>Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours</u> <u>of Op.</u>
W-274	0	0.0	0	0	0
W-2208A	0	0.0	0	0	0
W-2207A	0	0.0	0	0	0
W-2207B	0	0.0	0	0	0
W-1517	0	0.0	0	0	0
W-2208B	0	0.0	0	0	0
W-2204	0	0.0	0	0	0
W-2206	0	0.0	0	0	0
W-2205	0	0.0	0	0	0
<hr/>					
Total:	<u>0</u>	<u>0.0</u>			

4. Comments:

Facility was discovered non-operational on Mon. 8/18/08 with no available electronic data, no indication of date or time of failure. SMR data for August is based on log book data collected on Friday 8/15/08. Operational days and totals may need to be revised once the electronic data has been evaluated. Facility is currently non-operational. Facility did not operate in Sept.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature  Date: 10-01-2008

Self-Monitoring Report

LLNL Vapor Extraction System 19 (VES19)

AREA VTF518-PZ

1. Reporting Period: Business Month July Week: 1 Year 2008

2. Dates (in **bold** and underline) treatment facility operated

July	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

3. Wellfield Data:

<u>Source</u>	<u>Weekly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-1615	0	0.0	0	0	0
W-518-1913	0	0.0	0	0	0
W-518-1914	0	0.0	0	0	0
W-518-1915	0	0.0	0	0	0
SVB-518-204	0	0.0	0	0	0
SVB-518-201	0	0.0	0	0	0
<hr/>					
Total:	<u>0</u>	<u>0.0</u>			

4. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 08-04-2008

Self-Monitoring Report

LLNL Vapor Extraction System 19 (VES19)

AREA VTF518-PZ

1. Reporting Period: Business Month August Week: 1 Year 2008

2. Dates (in **bold** and underline) treatment facility operated

August	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	

3. Wellfield Data:

<u>Source</u>	<u>Weekly</u> <u>Volume(cu. ft)</u>	<u>Instantaneous</u> <u>Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours</u> <u>of Op.</u>
W-1615	0	0.0	0	0	0
W-518-1913	0	0.0	0	0	0
W-518-1914	0	0.0	0	0	0
W-518-1915	0	0.0	0	0	0
SVB-518-204	0	0.0	0	0	0
SVB-518-201	0	0.0	0	0	0
 Total:	<hr/> <u>0</u>	<hr/> <u>0.0</u>			

4. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 09-02-2008

Self-Monitoring Report

LLNL Vapor Extraction System 19 (VES19)

AREA VTF518-PZ

1. Reporting Period: Business Month September Year 2008

2. Dates (in **bold** and underline) treatment facility operated

August	30	31																												
September	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-1615	0	0.0	0	0	0
W-518-1913	0	0.0	0	0	0
W-518-1914	0	0.0	0	0	0
W-518-1915	0	0.0	0	0	0
SVB-518-204	0	0.0	0	0	0
SVB-518-201	0	0.0	0	0	0
Total:	<u>0</u>	<u>0.0</u>			

4. Comments:

This treatment facility was shut down on 2/27/08. Due to a FY 2008 funding reduction, facilities will be restarted in a prioritized order, pending available staff and resources.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **10-30-2008**

Self-Monitoring Report

LLNL Vapor Extraction System 01 (VES01)

AREA VTF5475

1. Reporting Period: Business Month July Year 2008

2. Dates (in **bold** and underline) treatment facility operated

July	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-ETS-507	0	0.0	0	0	0
W-1605	0	0.0	0	0	0
W-1608	0	0.0	0	0	0
W-2303	0	0.0	0	0	0
W-2212	0	0.0	0	0	0
W-2211	0	0.0	0	0	0
W-2302	0	0.0	0	0	0
SVI-ETS-504	0	0.0	0	0	0
<hr/>					
Total:	<u>0</u>	<u>0.0</u>			

4. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>VTF5475 Vapor Injection Well</u>	<u>SVI-ETS-505</u>	<u>0</u>

5. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

6. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 07-31-2008

Self-Monitoring Report

LLNL Vapor Extraction System 01 (VES01)

AREA VTF5475

1. Reporting Period: Business Month August Year 2008

2. Dates (in **bold** and underline) treatment facility operated

August	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-ETS-507	0	0.0	0	0	0
W-1605	0	0.0	0	0	0
W-1608	0	0.0	0	0	0
W-2303	0	0.0	0	0	0
W-2212	0	0.0	0	0	0
W-2211	0	0.0	0	0	0
W-2302	0	0.0	0	0	0
SVI-ETS-504	0	0.0	0	0	0
<hr/>					
Total:	<u>0</u>	<u>0.0</u>			

4. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>VTF5475 Vapor Injection Well</u>	<u>SVI-ETS-505</u>	<u>0</u>

5. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

6. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____

Scott Kawaguchi

Date: 09-02-2008

Self-Monitoring Report

LLNL Vapor Extraction System 01 (VES01)

AREA VTF5475

1. Reporting Period: Business Month September Year 2008

2. Dates (in **bold** and underline) treatment facility operated

August	30	31																	
September	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15				
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30				

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-ETS-507	0	0.0	0	0	0
W-1605	0	0.0	0	0	0
W-1608	0	0.0	0	0	0
W-2303	0	0.0	0	0	0
W-2212	0	0.0	0	0	0
W-2211	0	0.0	0	0	0
W-2302	0	0.0	0	0	0
SVI-ETS-504	0	0.0	0	0	0
<hr/>					
Total:	<u>0</u>	<u>0.0</u>			

4. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>VTF5475 Vapor Injection Well</u>	<u>SVI-ETS-505</u>	<u>0</u>

5. Comments:

This treatment facility was shut down on 10-12-07 due to a FY 2008 funding reduction. Facilities will be restarted in a prioritized order, pending available staff and resources.

6. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 10-09-2008

Attachment C

Lake Haussmann

Attachment C

Lake Haussmann Third Quarter 2008 Monitoring Program Summary

This attachment summarizes the third quarter 2008 LLNL Environmental Protection Department discharge data for Lake Haussmann. Lake Haussmann is an artificial water body that has a 37 acre-ft capacity. It is located in the central portion of the Livermore Site (Fig. C-1) and receives storm water runoff and treated ground water discharges.

Samples are collected from water discharged from Lake Haussmann and analyzed as outlined in Jackson (2002). The discharge samples are used to determine compliance with discharge limits in the *Record of Decision* (DOE, 1992), and the subsequent *Explanation of Significant Differences for Metals Discharge Limits* (Berg et al., 1997).

Dry season (June, July, August, September) discharges are sampled at each manual release or monthly during periods of continual release. Wet season (October through May) discharge samples are collected at the first release of the wet season and one other discharge in conjunction with a storm water monitoring event. Analytic results of discharge samples collected at location CDBX are compared with the LLNL Arroyo Las Positas outfall sample results collected at location WPDC (Fig. C-1). The results for samples collected at locations CDBX and WPDC are presented in Table C-1. All PCBs were below detection limits. No metals exceed discharge limits. The pH values at both locations exceeded the desired range of 6.5 to 8.5. The pH has averaged 8.6 since 1998 at the CDBX sampling location and is typically elevated during summer due to increased photosynthesis. Aquatic bioassay tests showed no toxicity.

Discharge from Lake Haussmann remained continuous during the third quarter. The Lake Haussmann upper weir gate was maintained at the lowered position during the entire third quarter so that releases occurred continuously to minimize changes in surface water level and allow for a more natural ecosystem.

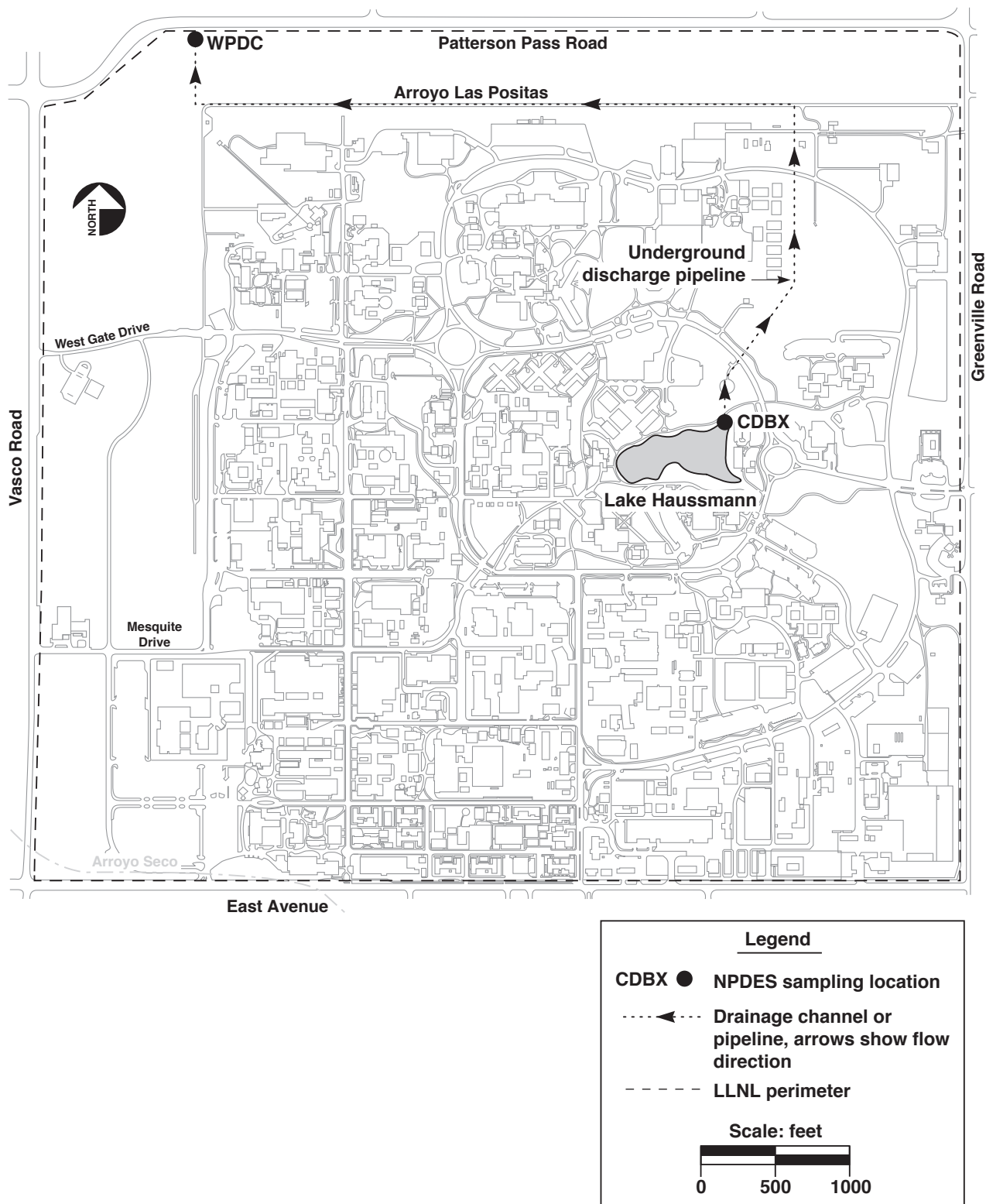
References

- U.S. Department of Energy, *Record of Decision for the Lawrence Livermore National Laboratory, Livermore Site*, Lawrence Livermore National Laboratory, Livermore, CA, UCRL-AR-109105, (1992).
- Berg, L.L., E.N. Folsom, M.D. Dresen, R.W. Bainer, and A.L. Lamarre, Eds., *Explanation of Significant Differences for Metals Discharge Limits at the Lawrence Livermore National Laboratory, Livermore Site*, Lawrence Livermore National Laboratory, Livermore, CA, UCRL-AR-125927 (1997).
- Jackson, C.S., *Drainage Retention Basin Monitoring Plan Change*, Letter to Ms. Naomi Feger, San Francisco Bay RWQCB, Lawrence Livermore National Laboratory, Livermore, CA, WGMG02:175:CSJ:RW:kh, (December 6, 2002).

Table C-1 LLNL Lake Haussmann release monitoring data for points CDBX and WPDC, July through September 2008.									
			CDBX 7/23	CDBX 8/19	CDBX 9/24	WPDC 7/23	WPDC 8/19	WPDC 9/24	Discharge Limits 1-Apr through 30-Nov
Physical									
pH	Units	EPA-150.1	9.48	9.5	9.19	8.4	8.49	8.57	not <6.5 nor >8.5
Total suspended solids (TSS)	mg/L	EPA-160.2	1.2	6.3	8.	23	32	46	na
Polychlorinated biphenyls			a	a	a	b	b	b	na
PCB 1016	ug/L	E8082A	< 0.5	< 0.5	< 0.5	b	b	b	na
PCB 1221	ug/L	E8082A	< 0.5	< 0.5	< 0.5	b	b	b	na
PCB 1232	ug/L	E8082A	< 0.5	< 0.5	< 0.5	b	b	b	na
PCB 1242	ug/L	E8082A	< 0.5	< 0.5	< 0.5	b	b	b	na
PCB 1248	ug/L	E8082A	< 0.5	< 0.5	< 0.5	b	b	b	na
PCB 1254	ug/L	E8082A	< 0.5	< 0.5	< 0.5	b	b	b	na
PCB 1260	ug/L	E8082A	< 0.5	< 0.5	< 0.5	b	b	b	na
Metals - Total									
Aluminum	mg/L	EPA-200.7	<0.05	<0.05	<0.05	0.37	0.22	0.72	na
Antimony	mg/L	EPA-200.8	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.006
Arsenic	mg/L	EPA-200.8	0.002	<0.002	<0.002	0.0021	<0.002	<0.002	0.05
Barium	mg/L	EPA-200.7	0.091	0.098	0.12	0.11	0.11	0.12	na
Beryllium	mg/L	EPA-210.2	<0.0002	<0.0008	<0.0008	<0.0002	<0.0008	<0.0008	0.004
Boron	mg/L	EPA-200.7	2.3	2.3	2.2	1.7	1.1	1.2	na
Cadmium	mg/L	EPA-200.8	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005
Chromium	mg/L	EPA-200.8	<0.003	<0.003	<0.003	0.01	0.012	0.015	0.05
Cobalt	mg/L	EPA-200.7	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	na
Copper	mg/L	EPA-200.8	<0.002	<0.002	<0.002	0.002	<0.002	0.0023	1.3
Hexavalent Chromium	mg/L	EPA-7196	0.0023	0.00099	0.0017	0.0071	0.011	0.011	na
Iron	mg/L	EPA-200.7	<0.05	<0.05	<0.05	0.52	0.28	0.88	na
Lead	mg/L	EPA-200.8	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
Manganese	mg/L	EPA-200.8	0.0013	0.0033	0.0026	0.013	0.007	0.015	0.5
Mercury	mg/L	EPA-245.1	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.002
Molybdenum	mg/L	EPA-200.8	0.0034	0.0032	0.0035	0.0031	0.0026	0.0025	0.05
Nickel	mg/L	EPA-200.8	<0.002	<0.002	<0.002	0.0027	0.0022	0.0037	0.1
Selenium	mg/L	EPA-200.8	<0.002	<0.002	0.002	<0.002	<0.002	<0.002	0.05
Silver	mg/L	EPA-200.8	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.1
Thallium	mg/L	EPA-200.8	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002
Vanadium	mg/L	EPA-200.7	<0.01	<0.01	<0.01	<0.01	<0.01	0.011	na
Zinc	mg/L	EPA-200.7	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	na
Toxicity									
Aq. Bioassay, Survival	Percent	Title 22	100.	90.	100.	100.	90.	100	na

a) All analysis results for these analytes are below reporting limits.

b) Sampling for these analytes not required at this location.



ERD-S3R-08-0041

Figure C-1. Location of Lake Haussmann showing discharge sampling locations.

Attachment D

Figures

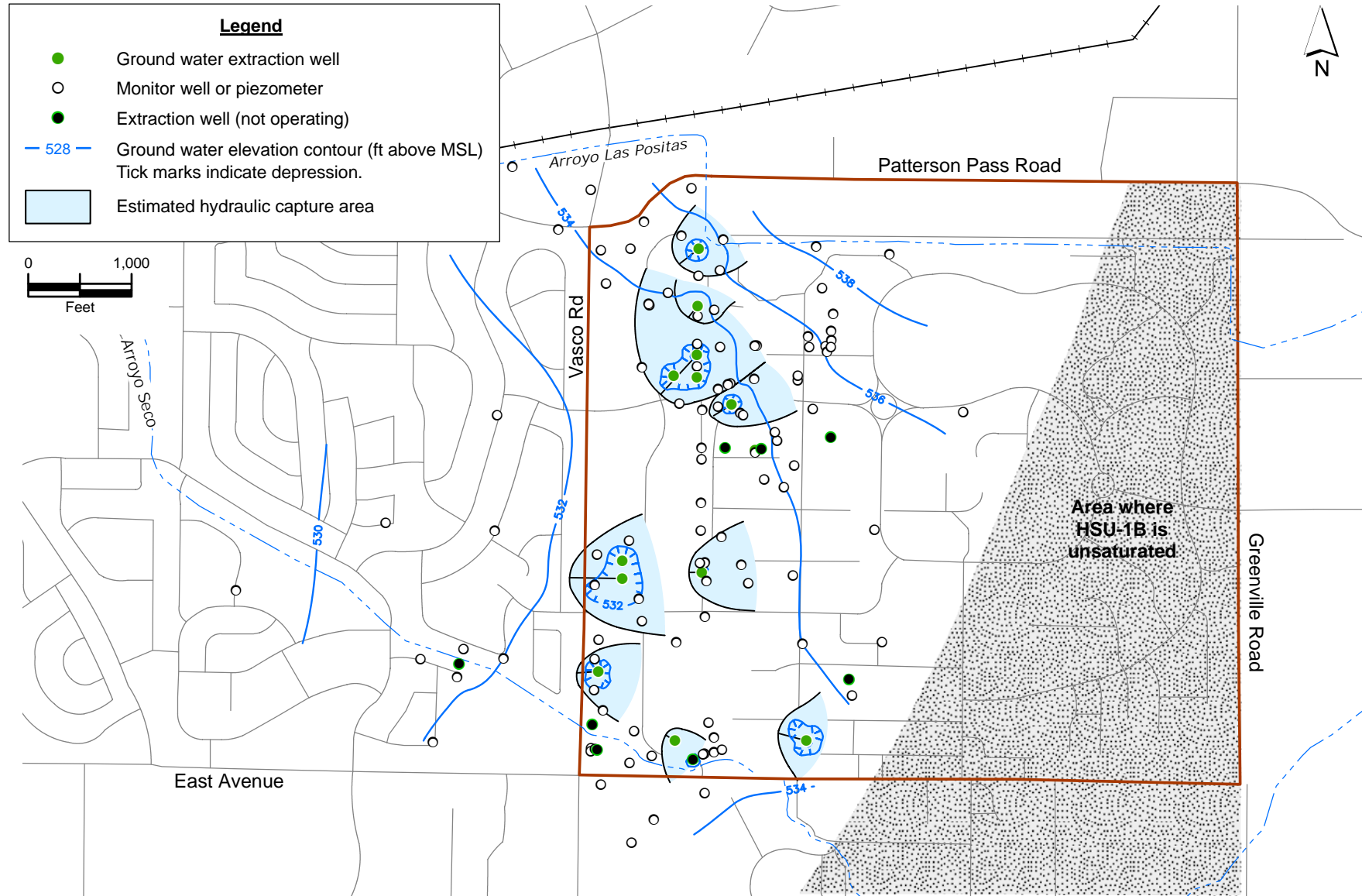


Figure 2. Ground water elevation contour map based on 127 wells completed within HSU-1B showing estimated hydraulic capture areas, LLNL and vicinity, July, 2008.

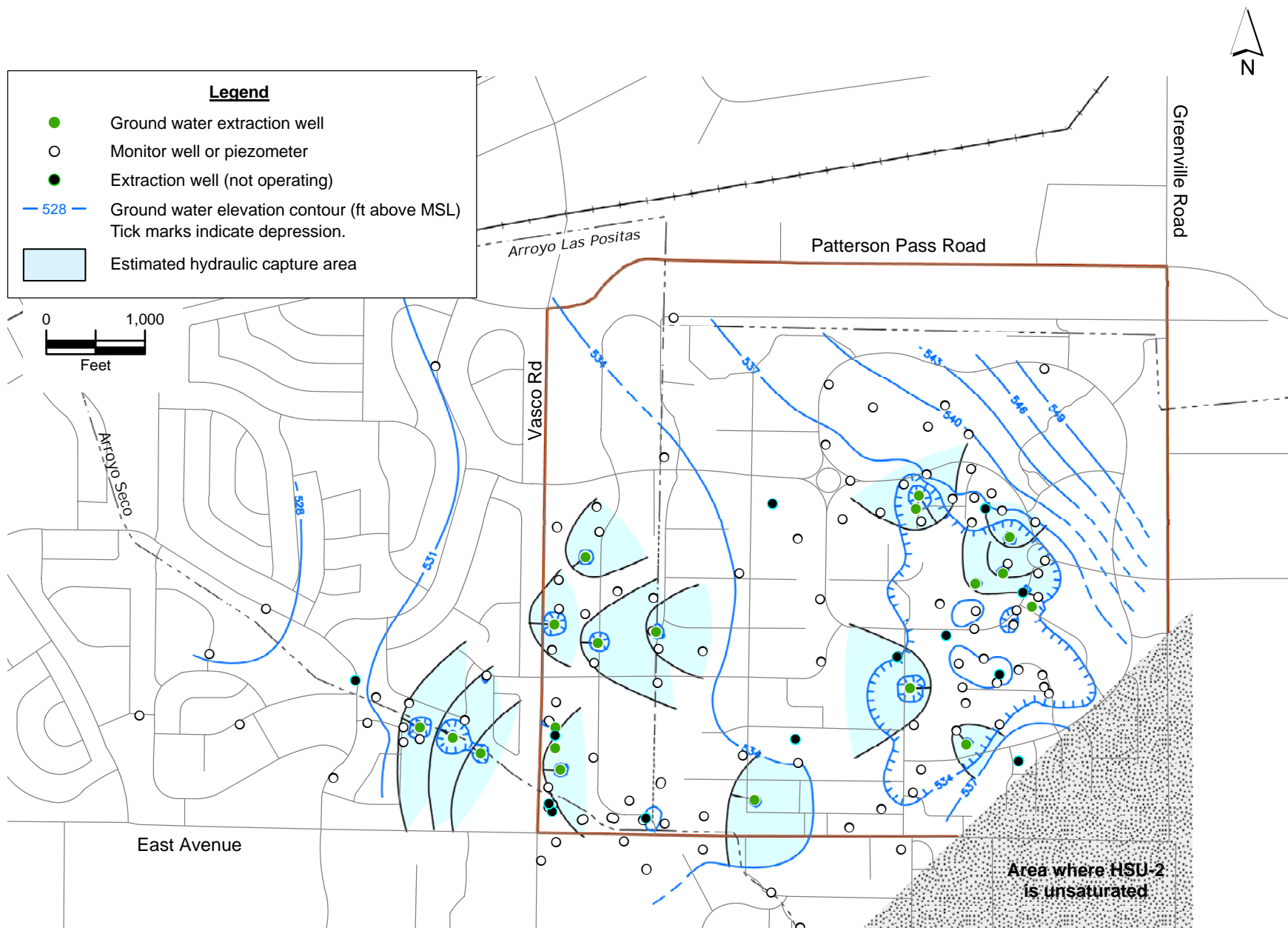


Figure 3. Ground water elevation contour map based on 145 wells completed within HSU-2 showing estimated hydraulic capture areas, LLNL and vicinity, July 2008.

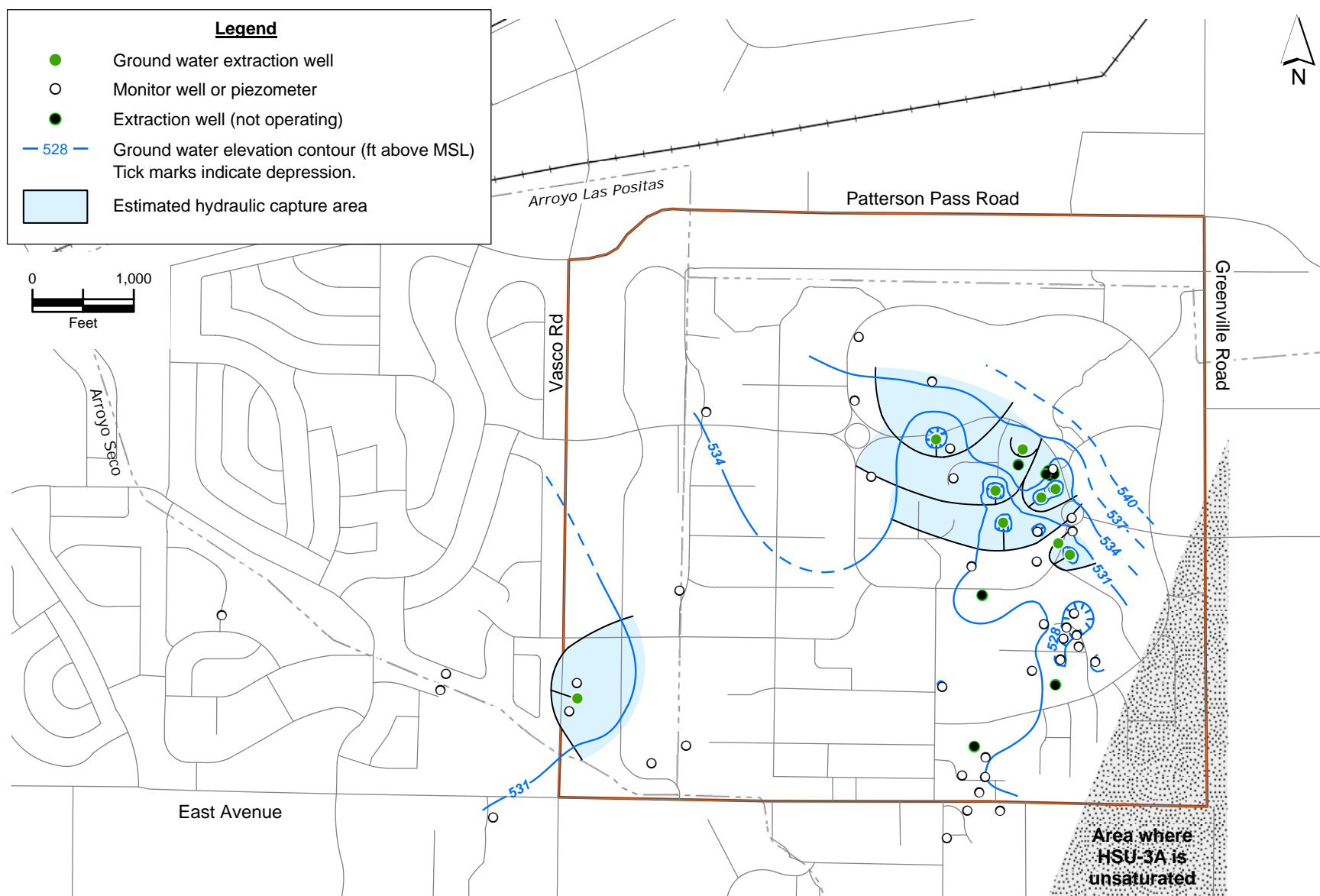


Figure 4. Ground water elevation contour map based on 61 wells completed within HSU-3A showing estimated hydraulic capture areas, LLNL and vicinity, July 2008.

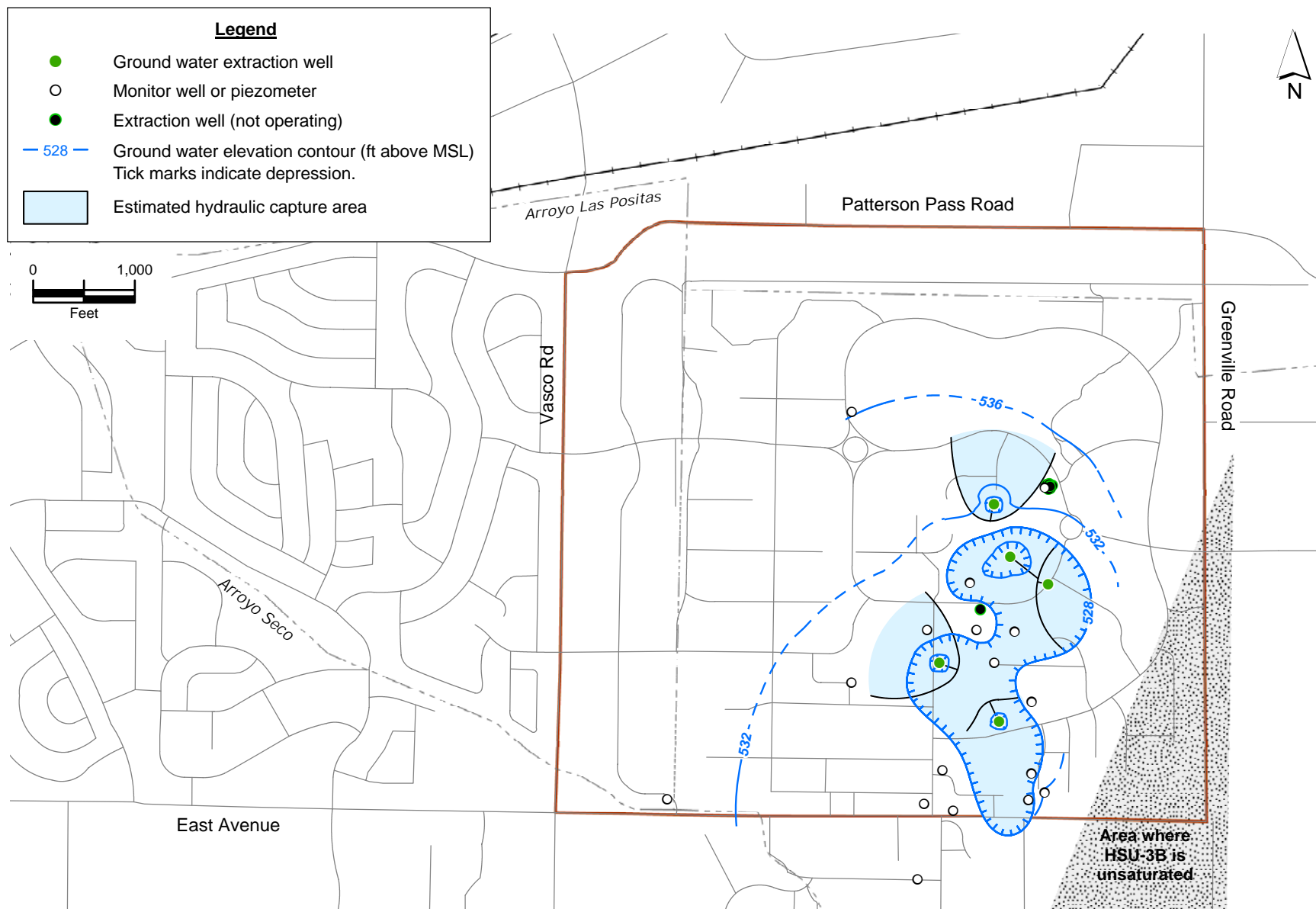


Figure 5. Ground water elevation contour map based on 29 wells completed within HSU-3B showing estimated hydraulic capture areas, LLNL and vicinity, July 2008.

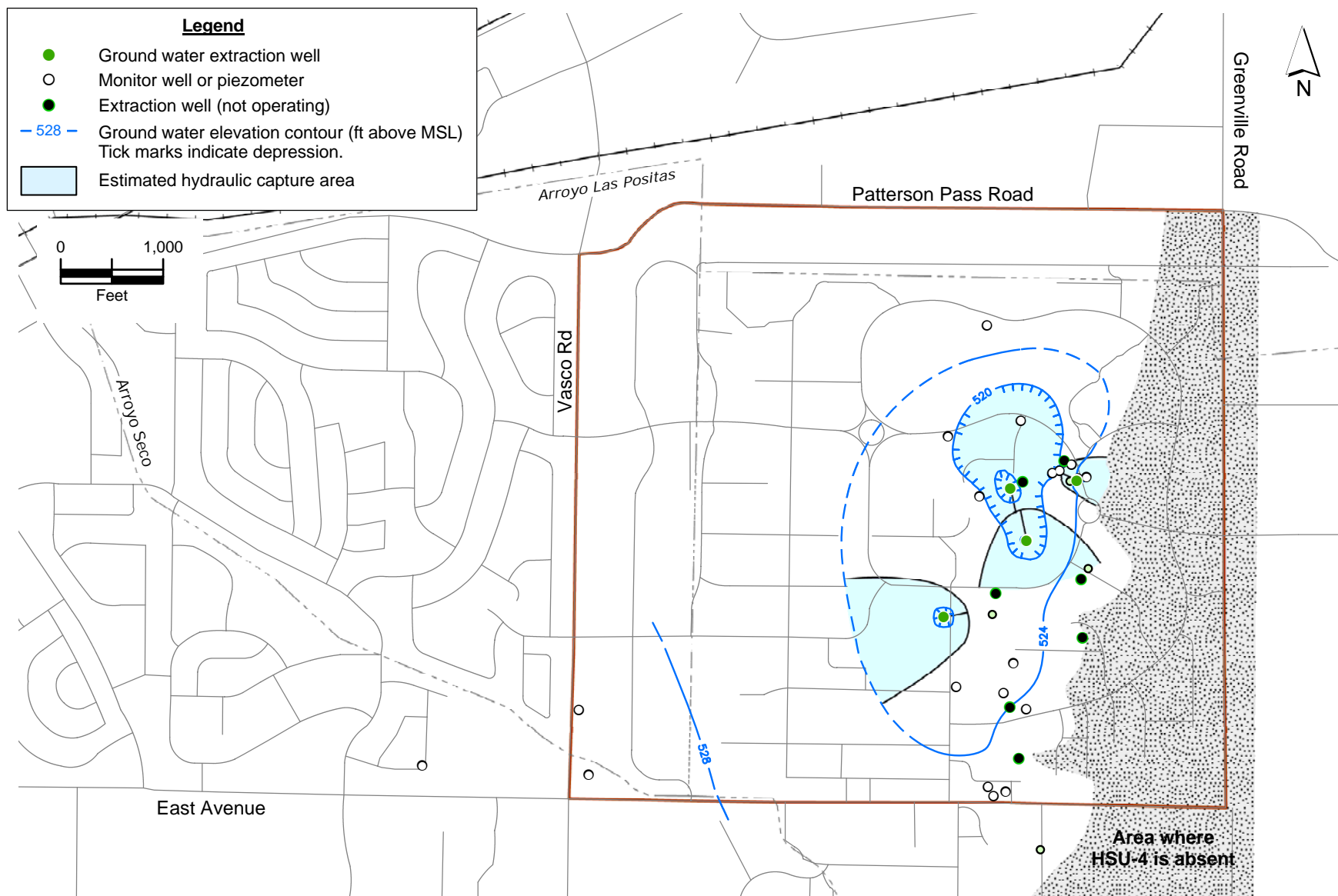


Figure 6. Ground water elevation contour map based on 35 wells completed within HSU-4 showing estimated hydraulic capture areas, LLNL and vicinity, July 2008.

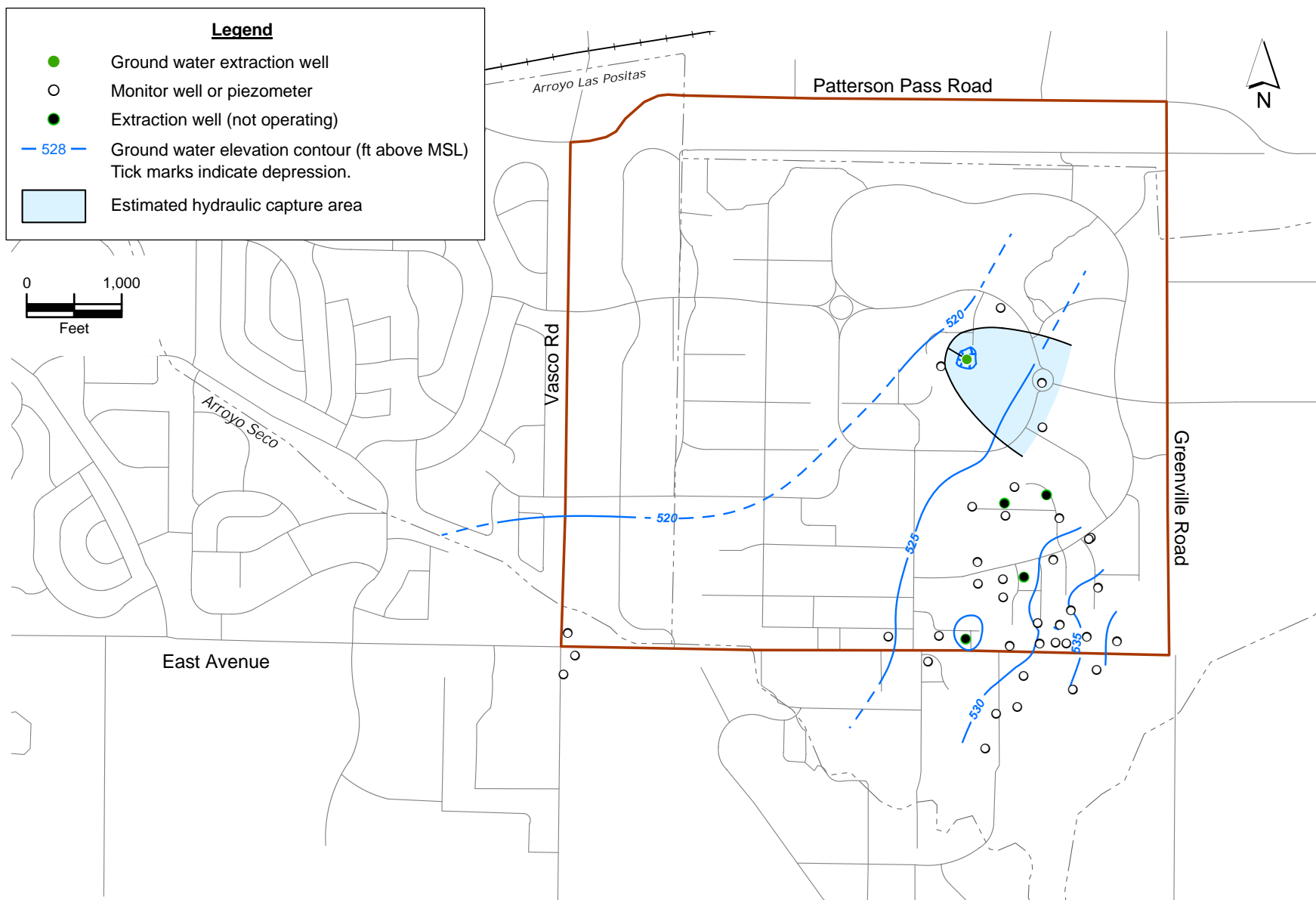


Figure 7. Ground water elevation contour map based on 45 wells completed within HSU-5 showing estimated hydraulic capture areas, LLNL and vicinity, July 2008.